



SUBMITTAL COVER SHEET

From: Tyler O'Neill Attn: Tim Brown
 Company: Piazza, Inc. C&S Companies
 Phone/Fax #: (914)741-4435 499 Col. Eileen Collins Blvd.
 Project: Dutchess Stadium Syracuse, NY 13212
 Project #: RFB-DCB-18-22 (315) 455-2000; Fax: 455-9577

Reference: CSI Code: 093013-6 Dwg No: _____
 Paragraph: _____ Other: _____

Description: Ceramic Tile Product data

Supplier: Empire Tile

Manufacturer: _____

Item Type: Product Data _____ Manf. Cert/Warranty
 Shop Drawings _____ Samples
 Other: _____

Contractor's Approval:

_____ Reviewed for general compliance of specifications.
 _____ This submittal is a **substitute** to the specified product.
 _____ For Architects / Engineers Approval
 This is our _____ submittal for this item.
 We are submitting _____ copies.

Contractor Submittal Review Stamp

THE ATTACHED MATERIAL HAS BEEN REVIEWED BY THE UNDERSIGNED AND IS BELIEVED TO COMPLY WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE UNDERSIGNED UNDERSTANDS VERIFICATION OF FIELD DIMENSIONS, AND COORDINATION WITH OTHER TRADES, REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

Submitted by: Piazza, Inc.
Digitally signed by Piazza, Inc.
 DN: C=US, E=ejuliana@piazzabrothers.com,
 OU=Piazza, Inc., O=Piazza, Inc.,
 CN=Piazza, Inc.
 Date: 2023.03.15 15:04:38-04'00'
 Date: 09/20/2023

C&S DLR Group

REVIEWED
 REVIEWED – ADDITIONAL INFORMATION REQUIRED
 FURNISH AS CORRECTED
 REVISE AND RESUBMIT
 REJECTED
 NOT REVIEWED

This review is for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. Review of submittals is not for the purpose of determining the accuracy and completeness of other information such as dimensions, quantities, and installation or performance of equipment or systems, which are the Contractor's responsibility. The Architect's review shall not constitute approval of safety precautions or construction means, methods, techniques, sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component. The Architect's comments, notes or corrections are not an authorization to proceed with Work involving a change in the Contract Sum, the Contract Time or both. If any portion of this review requires a change to the Work, an appropriate change instrument must be executed in accordance with the Contract Documents.

DLR Group
 Date: 10/04/2023
 By: ASchmidt

This is the same submittal as 093013-1. T-01 and T-05 was reviewed in submittal 093013-1. Ultracolor Plus may be used at narrow joints at highly glazed or polished tile and glass mosaic tile grout. Ultraflex LFT specified, not Ultraflex LHT. Submit mortar products conforming with specifications for the different types of tile included in the work. Cementitious backing remains missing.

*Note: Provide one cover sheet for each copy of the submittal.

REQUEST FOR SUBSTITUTION FORM
MUST BE SUBMITTED WITH FORM 012500B
CONTRACTOR'S STATEMENT OF CONFORMANCE

TO: **DLR Group**
7290 West 133rd Street
Overland Park, Kansas 66213
Phone: (913) 897-7811
Submit electronically in single file PDF format to Construction Manager

PROJECT: **Dutchess Stadium Improvements**

CONTRACTOR'S REQUEST, WITH SUPPORTING DATA

A. Reason for Substitution Request: Discontinued

B. Specifications to which this request applies: 093013 Section 4 Page B1 Paragraph

Product Data for proposed substitution attached (description of product, reference standards, performance and test data.)

Sample is attached.

Sample will be sent if requested by Architect/Engineer.

C. Itemized comparison of proposed substitution with product specified:

	SPECIFIED PRODUCT	PROPOSED SUBSTITUTION
Name/Brand	<u>Chimney T-05</u>	<u>Florida Tile</u>
Catalog/Model No.	_____	_____
Manufacturer	<u>Caesar Join</u>	_____
Significant Variations	_____	_____

D. Unit costs of original product and proposed substitution. State whether cost is for

material only,

material installed, or

Life cycle cost of installed product.

E. Proposed change in Contract Sum:

Credit to Owner: \$ 0 Additional Cost to Owner: \$ 0

F. Proposed Change in Contract Time:

Reduce

Increase by ___ days

No change

G. Effect of proposed substitution on other parts of the Work, or on other Contracts:

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Sample is attached. Sample will be sent if requested by Architect/Engineer.

C. Itemized comparison of proposed substitution with product specified:

	SPECIFIED PRODUCT	PROPOSED SUBSTITUTION
Name/Brand	<u>Vapor T-01</u>	<u>Metropolis</u>
Catalog/Model No.	_____	_____
Manufacturer	<u>Concept Surfaces</u>	_____
Significant Variations	_____	_____

D. Unit costs of original product and proposed substitution. State whether cost is for
 material only, material installed, or Life cycle cost of installed product.

E. Proposed change in Contract Sum:
Credit to Owner: \$ 0 Additional Cost to Owner: \$ 0

F. Proposed Change in Contract Time: Reduce Increase by ___ days No change

G. Effect of proposed substitution on other parts of the Work, or on other Contracts:

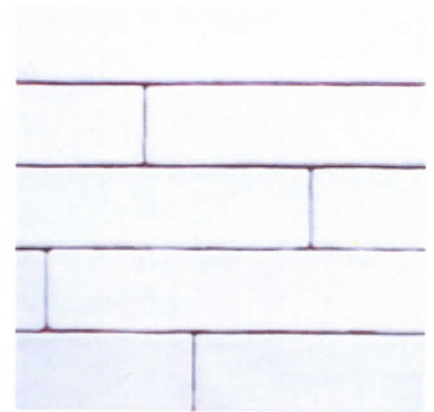
Cev Opaque Brick - White Glossy

DDS Tile & Stone

Product Description

Rustic brick wall tile with soft glossy colors and rustic rounded edges. A beautiful vintage and traditional style.

[View other products in this collection](#)



contact us to request free sample

503.525.0600

info@ddstile.com

Material	Glazed Ceramic
Finish	Glossy/Polished
Nominal Sizes	2x10in
Availability	Stocked Overseas
Starting at Price	\$6.90/SF

Tech Specs

Looks	Monochromatic	Surface	Undulating
Format	Small Format	Shape	Rectangle
Color Family	White	Product Usage	Interior Wall
Thickness	9mm	Edge	Rustic
Recommended Grout Joint	3mm	Contains Recycled Content	No
Environmental Performance	ISO 14001, ISO 9001, I reduce CO2	Environmentally Certified	Yes
Scratch Resistance	2 (ISO 10545-7)	Slip Resistance	Not Provided
Water Absorption	>10% (ISO 10545-3)	Chemical Resistance	GHA (ISO 10545-13)
Breaking Strength	>12 N/mm ² (ISO 10545-4)	Made in USA	No
Manufacturer Country	ES	Minimum Order Quantity	1 carton

Metropolis

A PASSAGE THROUGH CONTEMPORANEITY



CASALGRANDE
PADANA
Pave your way

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The fluid surfaces, the simplicity of the material and the vast range of colour variants give this concrete-effect collection a new aesthetic: the memory of time settles lightly on the surface, giving it an expressive, tactile allure. The ceramic reproduction of one of the oldest, most widely used building products has the accent placed on its most architectural, material element, to design sophisticated, attractive living spaces. The large formats amplify its vision, embracing a formal elegance ideal for functional, appealing architectural projects. New living scenarios, in which the timeless beauty of concrete proves receptive to change and adaptable to the new requirements of modern living.

La fluidité des surfaces, l'essence de la matière et les multiples variantes de couleurs offrent à cette collection effet ciment une nouvelle esthétique : la mémoire du temps se dépose délicatement sur la surface en lui donnant un caractère expressif et tactile. La reproduction céramique d'un des produits de construction les plus anciens et les plus utilisés depuis toujours est mise en valeur dans sa composante la plus architecturale, dans sa matière la plus profonde, pour dessiner des espaces raffinés et charmants. Les grands formats en élargissent la vision en embrassant une élégance formelle qui se prête parfaitement à un projet architectural fonctionnel et harmonieux. De nouveaux scénarios d'habitation voient le jour, où la beauté intemporelle du ciment s'adapte aux changements et aux nouvelles exigences de la vie moderne.

Die Fluidität der Oberflächen, die Einfachheit der Materie und die Vielzahl der Farbvarianten verleihen dieser Kollektion in Betonoptik eine neue Ästhetik: Das Zeitgedächtnis lagert sich sanft auf der Oberfläche ab und macht sie ausdrucksstark und greifbar. Die keramische Reproduktion eines der ältesten und meist verwendeten Bauprodukte wird in seiner architektonischen und materiellen Komponente hervorgehoben, um ausgesuchte und suggestive Räume zu schaffen. Die großen Formate verstärken diese Vision und glänzen mit einer formalen Eleganz, die sich gut für ein funktionales und harmonisches Architekturprojekt eignet. Neue Wohnwelten, in denen sich die zeitlose Schönheit des Betons an Veränderungen und neue Bedürfnisse des modernen Lebens anpasst

THE MEMORY OF THE FUTURE

La fluidità delle superfici, l'essenzialità della materia e la moltitudine di varianti cromatiche donano a questa collezione ad effetto cemento una nuova estetica: la memoria del tempo si deposita in modo lieve sulla superficie rendendola espressiva e tattile. La riproduzione ceramica di uno dei prodotti da costruzione più antichi e utilizzati di sempre viene esaltata nella sua componente più architettonica e materica per disegnare spazi ricercati e suggestivi. I grandi formati ne amplificano la visione, abbracciando un'eleganza formale che ben si presta ad un progetto architettonico funzionale e armonico. Nuovi scenari abitativi in cui la bellezza senza tempo del cemento si presta ai cambiamenti e alle nuove necessità del vivere moderno.

Function and elegance engage with natural surfaces such as wood, metal, stone and fabrics, speaking an ancient language that places the material at the centre of new scenarios in which space and time enter a dimension that's reassuring and at the same time packed with energy and natural appeal.

Fonctionnalité et élégance dialoguent avec les surfaces naturelles comme le bois, le métal, la pierre et les tissus, à travers un langage ancien : de nouvelles scénographies s'articulent autour d'un élément central, la matière, où l'espace et le temps trouvent une dimension à la fois rassurante et naturellement dynamique.

Funktionalität und Eleganz stehen im Dialog mit natürlichen Oberflächen wie Holz, Metall, Stein und Textilien mit einer antiken Sprache, die die Materie in den Mittelpunkt neuer Szenarien stellt, wo Raum und Zeit auf eine beruhigende und zugleich mit Energie und Natürlichkeit geladene Dimension trifft.

INTERCONNECTING SURFACES

Funzionalità ed eleganza dialogano con superfici naturali come legno, metallo, pietra e tessuti, attraverso un linguaggio antico che pone la materia al centro di nuove scenografie dove spazio e tempo trovano una dimensione rassicurante e al tempo stesso carica di energia e naturalezza.







Sand

VIEWS OF LIFE













Mud

BREATHING SLOWLY









Silver

MODERN MEMORIES









Greige

SAVORING THE SHAPES









White

PUSH AHEAD









Almond

WRITTEN ON THE SURFACE









Sand

FEELING NATURAL









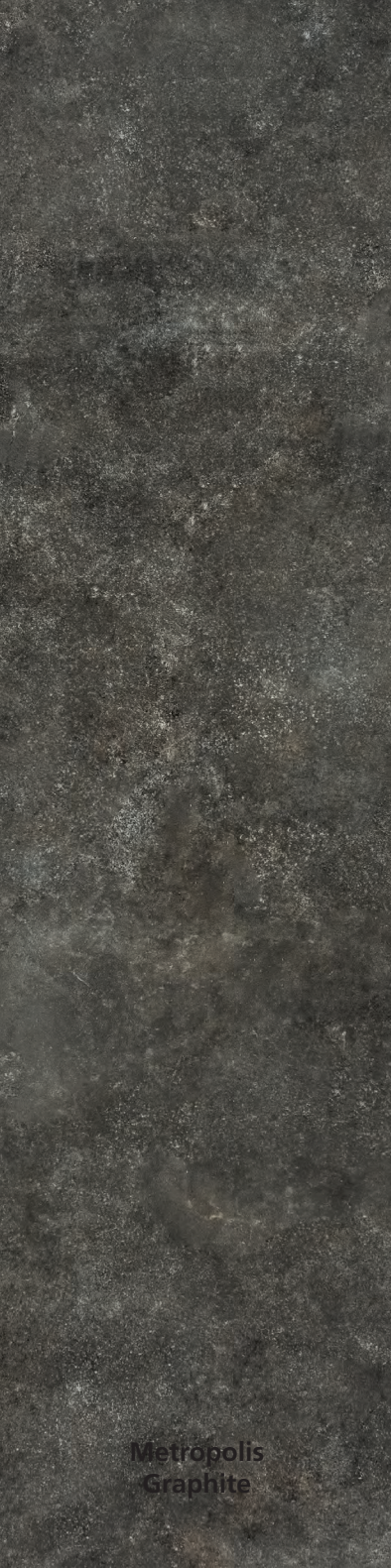
Grey

MOVING SHADOWS









**Metropolis
Graphite**



**Metropolis
Silver**



**Metropolis
Grey**



**Metropolis
White**

COLD COLOURS



**Metropolis
Sand**

**Metropolis
Almond**

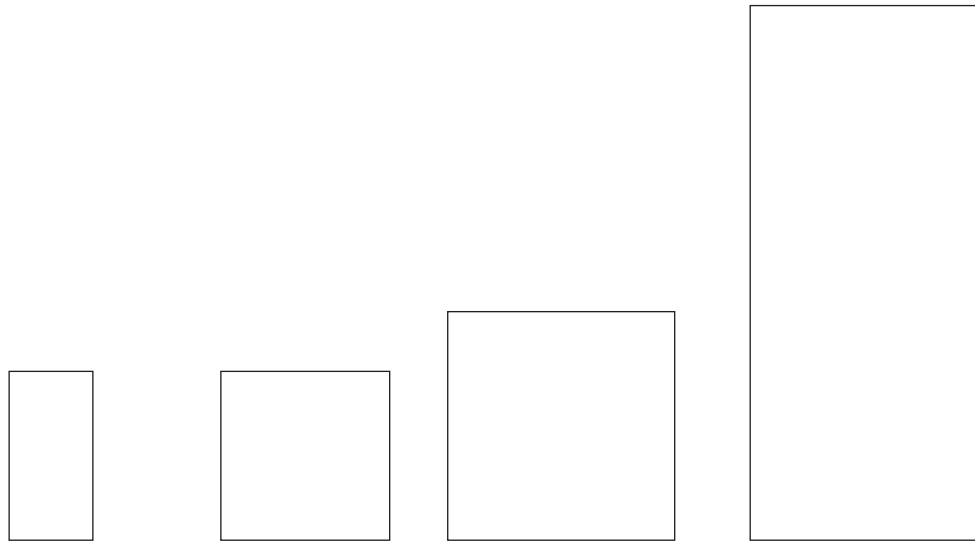
**Metropolis
Mud**

**Metropolis
Greige**

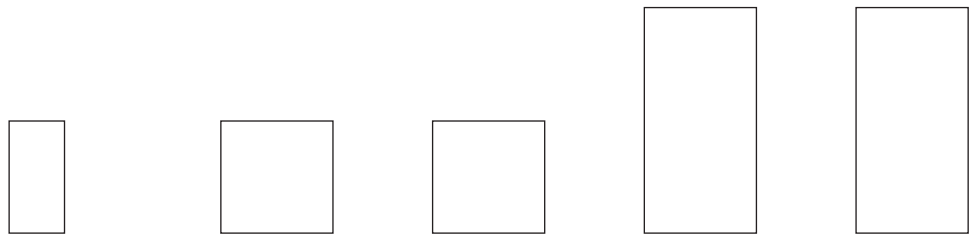
WARM COLOURS

FORMATI E SPESSORI

SIZES AND THICKNESSES - FORMATS ET ÉPAISSEURS - FORMATE UND STÄRKEN



Formati Sizes Formats Formate	cm 45x90 17 ^{3/4} "x35 ^{3/8} "	cm 90x90 35 ^{3/8} "x35 ^{3/8} "	cm 120x120 47 ^{1/4} "x47 ^{1/4} "	cm 120x278 47 ^{1/4} "x109 ^{1/2} "
Superfici Surfaces Surfaces Oberflächen	●	●	●	●
Spessori Thicknesses Epaisseurs Stärken	mm 10	mm 10	mm 9	mm 6,5



Formati Sizes Formats Formate	cm 30x60 11 ^{3/4} "x23 ^{5/8} "	cm 60x60 23 ^{5/8} "x23 ^{5/8} "	cm 60x60 23 ^{5/8} "x23 ^{5/8} "	cm 60x120 23 ^{5/8} "x47 ^{1/4} "	cm 60x120 23 ^{5/8} "x47 ^{1/4} "
Superfici Surfaces Surfaces Oberflächen	● ●	● ●	●	● ●	●
Spessori Thicknesses Epaisseurs Stärken	mm 9	mm 9	mm 20*	mm 9	mm 20*

* Solo nei colori Only in the colours Seulement dans les couleurs Nur in die Farben: Graphite, Greige, Grey, Sand

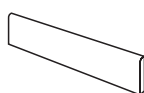


Rettificate in un unico calibro Rectified version in a single caliber
Rectifiés en un unique calibre Boden Sie in einem einzigen Kaliber

● Naturale Matt Naturelle Matt **R9**
● Grip **R11 A+B**

PEZZI SPECIALI

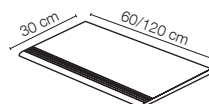
TRIMS - ACCESSOIRES - FORMSTÜCKE



Battiscopa
Bullnose
Plinthe à bord arrondi
Stehsockel

cm 7x60
2^{3/4}"x23^{5/8}"

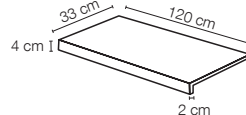
cm 7x90
2^{3/4}"x35^{3/8}"



Gradino
Step tread
Nez de marche
Stufenplatte

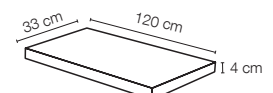
cm 30x60
11^{3/4}"x23^{5/8}"

cm 30x120
11^{3/4}"x47^{1/4}"



Gradone
(assemblato)

cm 120x33
47^{1/4}"x13"



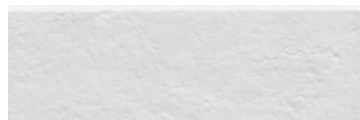
Angolare
(assemblato)

cm 120x33
47^{1/4}"x13"

DECORI

DECORS - DÉCORS - DEKORE

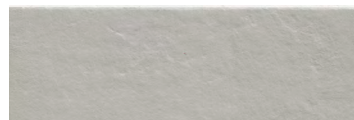
muretto



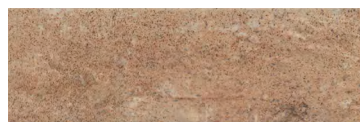
Muretto Bianco
cm 8,2x25 - 3^{1/4}" x 9^{7/8}"



Muretto Calce
cm 8,2x25 - 3^{1/4}" x 9^{7/8}"



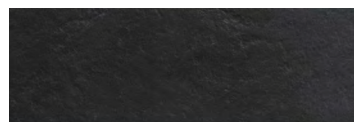
Muretto Grigio
cm 8,2x25 - 3^{1/4}" x 9^{7/8}"



Muretto Mattone
cm 8,2x25 - 3^{1/4}" x 9^{7/8}"



Muretto Lava
cm 8,2x25 - 3^{1/4}" x 9^{7/8}"



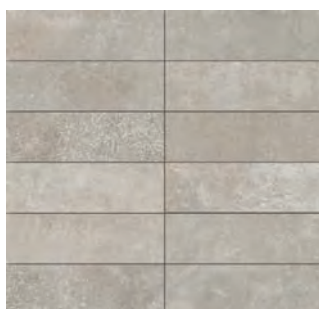
Muretto Nero
cm 8,2x25 - 3^{1/4}" x 9^{7/8}"

mosaico 5x5*



cm 30x30 - 11^{3/4}" x 11^{3/4}"
tessera cm 5x5 - 2" x 2"
su rete on net sur trame auf Netz
mm 9

mosaico 5x15*



cm 30x30 - 11^{3/4}" x 11^{3/4}"
tessera cm 5x15 - 2" x 5^{7/8}"
su rete on net sur trame auf Netz
mm 9

bios antibacterial®

La collezione Metropolis è disponibile anche nella versione **Bios Antibacterial®**. La preferenza andrà espressa al momento dell'ordine.
The Metropolis collection is available also in the **Bios Antibacterial®** version. You can express your preference upon placing your order.
La collection Metropolis est également disponible dans la version **Bios Antibacterial®**. La préférence devra être exprimée lors de la commande.
Die kollektion Metropolis ist auch mit **Bios Antibacterial®**-behandlung erhältlich. Die entsprechende entscheidung wird bei der bestellung getroffen.

* Disponibile in tutti i colori della serie Available in all the colours of the series Disponible dans tous les couleurs e la série Verfügbar in allen farben

PESI, MISURE E CONTENUTO DEI COLLI

WEIGHT, SIZE AND CONTENTS OF THE PACKING - POIDS, DIMENSIONS, CONTENU DES COLIS VERPACKUNGSGROSSSEN/GEWICHTE

cm	pollici	mm							
120x278	47 ^{1/4} "x109 ^{1/2} "	6,5	1	3,34	15	20	66,72	1.001	
45x90	17 ^{3/4} "x35 ^{3/8} "	10	3	1,215	24	30	36,45	875	
90x90	35 ^{3/8} "x35 ^{3/8} "	10	2	1,62	24	24	38,88	933	
30x60	11 ^{3/4} "x23 ^{5/8} "	9	6	1,08	21	48	51,84	1089	
60x60	23 ^{5/8} "x23 ^{5/8} "	9	4	1,44	21	30	43,20	907	
60x120	35 ^{3/8} "x35 ^{3/8} "	9	2	1,44	21	36	51,84	1089	
120x120	47 ^{1/4} "x47 ^{1/4} "	9	1	1,44	21	30	43,20	907	
60x60	23 ^{5/8} "x23 ^{5/8} "	20	2	0,72	46	32	23,04	1060	
60x120	35 ^{3/8} "x35 ^{3/8} "	20	1	0,72	46	36	51,84	1244	
30x30	11 ^{3/4} "x11 ^{3/4} "	-	6	-	-	-	-	-	-
30x30	11 ^{3/4} "x11 ^{3/4} "	-	6	-	-	-	-	-	-
7x60	2 ^{3/4} "x23 ^{5/8} "	-	18	-	-	-	-	-	-
7x90	2 ^{3/4} "x35 ^{3/8} "	-	9	-	-	-	-	-	-
30x60	11 ^{3/4} "x23 ^{5/8} "	-	6	-	-	-	-	-	-
30x120	11 ^{3/4} "x47 ^{1/4} "	-	3	-	-	-	-	-	-
120x33	47 ^{1/4} "x13"	-	2	-	-	-	-	-	-
120x33	47 ^{1/4} "x13"	-	1	-	-	-	-	-	-

CARATTERISTICHE TECNICHE

TECHNICAL FEATURES - CARACTÉRISTIQUES TECHNIQUES - TECHNISCHE EIGENSCHAFTEN














Metropolis GRANITOKER

Gres porcellanato Fully vitrified porcelain Grès cerame vitrifié Feinsteinzeug



norma standards
norme Norm

risultato prova* test results*
resultats des essais* Ergebnisse*

	classificazione prodotto product classification classement Klassifizierung	UNI EN 14411-G ISO 13006	gruppo Bla completamente greificato group Bla fully vitrified group Bla grès cérame fin Gruppe B1a Feinsteinzeug
	caratteristiche dimensionali e d'aspetto dimensional and surface quality caractéristiques de la surface Oberflächenqualität	UNI EN ISO 10545-2	tolleranze minime nella 1ª scelta very low tolerance des tolérances minimales en 1er choix Entspricht Normen
	assorbimento di acqua water absorption absorption d'eau Wasseraufnahme	UNI EN ISO 10545-3	< 0,1%
	resistenza alla flessione flexural strength résistance à la flexion Biegezug-Festigkeit	UNI EN ISO 10545-4	> 45 N/mm ²
	resistenza al gelo frost resistance résistance au gel Frostwiderstandsfähigkeit	qualsiasi norma all standards toute norme alle normen	garantita guaranteed garantie Frostsicher
	resistenza attacco chimico (esclusione acido fluoridrico) resistance to acids and alkalis (with the exception of hydrofluoric acid) résistance à l'attaque chimique (exclusion de l'acide fluorhydrique) Säure und Laugen Beständigkeit (mit Ausnahme von Fluorwasserstoff)	UNI EN ISO 10545-13	A
	resistenza usura e abrasione wear and abrasion resistance résistance à l'usure et abrasion Abriebhärte	UNI EN ISO 10545-6	≤ 150 mm ³
	dilatazione termica lineare linear thermal expansion coefficient linéaire de dilatation thermique Lineare Wärmeausdehnung	UNI EN ISO 10545-8	6 x 10 ⁻⁶
	resistenza alle macchie stain resistance résistance aux taches Fleckenfestigkeit	UNI EN ISO 10545-14	garantita guaranteed garantie Frostsicher
	resistenza alla scivolosità slip resistance résistance au glissement Trtrittsicherheit	DIN 51130 D.M. N° 236 DEL 14.06.89 METODO B.C.R. BS7976-2:2002 BSEN13036-4:201	R9 Naturale Matt Naturelle Matt R11 A+B Grip valore μ > 0,40*** PTV > 36***
	resistenza dei colori alla luce colour resistance to sunlight exposure résistance de la couleur à la lumière Unveränderlichkeit der Farben wenn Strahlung zugesetzt wird	DIN 51094	nessuna variazione no change of colours couleurs inchangées Keinerlei Farbänderung

* valore indicativo approx value donnée approximative Ungefähre Werte

** Si rimanda all'elenco prodotti UPEC ufficiale, consultabile sul sito: Please see the official UPEC product list:
Veuillez consulter la liste officielle produits UPEC: Sihe die offizielle UPEC-Produktliste auf der Website: <http://webapp.cstb.fr/upec-ceramique/>

*** prova su superficie asciutta test on a dry surface essai sur surface sèche Test auf trockener Oberfläche

Al pari dei materiali naturali di riferimento, l'aspetto estetico, la differenza di tono e le venature possono essere diverse da piastrella a piastrella. Per una corretta comprensione della variabilità del prodotto è consigliabile prendere visione delle immagini a tutto ambiente sul catalogo di collezione, sul nostro sito all'indirizzo www.casalgrandepadana.it o chiedere maggiori informazioni ai nostri concessionari.

Just like the natural materials they are inspired by, the aesthetics, colouration and veining of the tiles can differ. To properly gauge the suitability of a product, we advise that you view the full-space photos that you can find in our collection catalogue and on our website at www.casalgrandepadana.com. Alternatively, please ask a reseller for more information.

Tout comme pour les matières naturelles de référence, la différence de tonalité, les veines ainsi que l'aspect esthétique peuvent varier d'une dalle à l'autre. Pour bien comprendre la variabilité du produit, il est conseillé de consulter les images d'ambiance présentes sur le catalogue de la collection, sur notre site à l'adresse www.casalgrandepadana.fr ou de demander plus d'informations à nos concessionnaires.

Wie bei den als Vorbild dienenden Naturmaterialien können sich auch hier das ästhetische Erscheinungsbild, der Farbtonunterschied und die Maserung von Fliese zu Fliese unterscheiden. Um die Variabilität des Produkts besser zu verstehen, raten wir Ihnen, die Bilder mit ausgestatteten Räumen im Kollektionskatalog auf unserer Website www.casalgrandepadana.de zu konsultieren. Weitere Informationen können Sie auch bei unseren Vertragshändlern erhalten.

Le prestazioni impareggiabili di Bios Antibacterial®

The unrivalled performance of Bios Antibacterial® / Les performances incomparables de Bios Antibacterial® / Die unvergleichliche Leistung von Bios Antibacterial®

Bios Antibacterial® è l'esclusivo trattamento a base di argento che Casalgrande Padana applica alle proprie piastrelle, in grado di eliminare al 99% i batteri presenti sulla superficie ceramica. La capacità antibatterica è incorporata in modo permanente nelle lastre ed è sempre attiva, sia con luce che al buio e, al contrario di molti prodotti presenti sul mercato definiti antibatterici, non ha bisogno di raggi UV per l'attivazione. Bios Antibacterial® adotta una tecnologia agli ioni d'argento che blocca il metabolismo dei batteri, eliminandoli e impedendone la proliferazione, con un'efficacia testata sui quattro principali ceppi batterici. La commercializzazione di Bios Antibacterial® è autorizzata e approvata dal Regolamento Europeo sui Biocidi (EU BPR 528/2012).

Bios Antibacterial® is the exclusive silver-based treatment that Casalgrande Padana applies to its tiles. It helps eliminate 99% of bacteria from the tiles' surface. This antibacterial treatment is incorporated permanently into the tiles and is always active, day and night. Unlike many other products marketed as antibacterial, it doesn't need UV radiation to be activated. Bios Antibacterial® uses a technology based on silver ions, which removes bacteria and prevents their proliferation by inhibiting bacterial metabolism. Its effectiveness has been tested on the four main bacterial strains. Bios Antibacterial® complies with the Biocidal Products Regulation (BPR, Regulation (EU) 528/2012).

Bios Antibacterial® est le traitement exclusif à base d'argent que Casalgrande Padana applique sur ses dalles. Il est en mesure d'éliminer à 99 % les bactéries présentes sur la surface céramique. Incorporée de façon permanente dans les dalles, la capacité antibactérienne est toujours active, de jour comme de nuit, et, contrairement à de nombreux produits présents sur le marché définis comme antibactériens, les rayons UV ne sont pas nécessaires à son activation. Bios Antibacterial® adopte une technologie aux ions d'argent qui inhibe le métabolisme des bactéries, en les éliminant et en empêchant leur prolifération. Son efficacité est testée sur les quatre principales souches bactériennes. La commercialisation de Bios Antibacterial® est autorisée et approuvée par le Règlement européen sur les produits biocides (UE BPR 528/2012).

Bios Antibacterial® ist eine einzigartige Silberbehandlung, die Casalgrande Padana auf seine Fliesen anwendet, die 99 % der auf Keramikoberflächen vorkommenden Bakterien eliminieren kann. Die antibakterielle Wirkung ist fest in die Platten integriert und ist immer aktiv, sowohl bei Licht als auch bei Dunkelheit. Im Gegensatz zu vielen anderen Produkten auf dem Markt, die als antibakteriell bezeichnet werden, ist keine UV-Strahlung zur Aktivierung erforderlich. Bios Antibacterial® nutzt eine Technologie mit Silberionen, die den Stoffwechsel von Bakterien blockiert, sie eliminiert und ihre Vermehrung verhindert. Ihre Wirksamkeit wurde erfolgreich an den vier Hauptbakterienstämmen getestet. Die Vermarktung von Bios Antibacterial® ist gemäß der Europäischen Biozid-Verordnung (EU BPR 528/2012) zugelassen und genehmigt.

bios antibacterial®



Battericida Bactericidal

Uccide i batteri al 99%
It kills 99% of bacteria



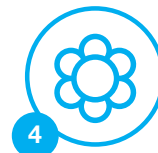
Conformità BPR BPR conformity

Efficacia approvata UE
EU-approved effectiveness



Sempre attivo Always active

Protezione continua h 24
24 h protection



Anti-odore Anti-odour

Elimina i cattivi odori
Eliminates odours



Inalterabile Remains unchanged over time

Insensibile all'usura
Withstands wear and tear



Innocuo Harmless

Per l'uomo e l'ambiente
To the environment and
human health



Facile da pulire Easy to clean

Elevate prestazioni igieniche
Unmatched hygiene

La ceramica, una scelta sicura

Ceramic: a safe choice / La céramique, un choix sûr /
Keramik, eine sichere Wahl

Scegliere la ceramica nella moderna progettazione, significa valorizzare le qualità di un materiale nobile, naturale e performante. La ceramica è anallergica e inodore perchè non trattiene lo sporco e i batteri ed è facile da pulire. Altamente resistente a qualsiasi tipo di sollecitazione chimica e meccanica, garantisce una lunga durata nel tempo, non brucia e non rilascia sostanze nocive: per questo è bella, sicura e adatta a diverse destinazioni d'uso, grazie alla ricca gamma di superfici, formati e spessori. Inoltre è un materiale completamente riciclabile, non contiene plastica e viene realizzata secondo processi produttivi che rispettano l'ambiente e la salute.

Choosing ceramic in modern architecture means emphasising the quality of this noble, natural, high-performance material. Ceramic is non-allergic and odourless because it doesn't retain dirt and bacteria, and it's easy to clean. It withstands any chemical or mechanical stress, it's long-lasting, it doesn't burn and doesn't release harmful substances. With its wide range of surfaces, sizes, and thicknesses, ceramic is beautiful, safe, and suitable for any use. Moreover, it's fully recyclable, it doesn't contain plastic, and it's made with production processes that help protect both the environment and human health.

Choisir la céramique dans la conception moderne signifie mettre en valeur les qualités d'un matériau noble, naturel et performant. Facile à nettoyer, la céramique est anallergique et inodore car elle ne retient ni la saleté ni les bactéries. Fortement résistante à tout type de sollicitation chimique et mécanique, elle est durable dans le temps, ne brûle pas et ne libère aucune substance nocive. C'est pourquoi elle est élégante, sûre et, grâce à la riche gamme de surfaces, de formats et d'épaisseurs, adaptée à différentes applications. De plus, il s'agit d'un matériau entièrement recyclable, sans traces de plastique, et qui est réalisé conformément à des processus de production respectueux de l'environnement et de la santé.

Die Wahl von Keramik bedeutet im modernen Design, die Eigenschaften eines edlen, natürlichen und leistungsfähigen Materials zu würdigen. Keramik ist hypoallergen und geruchsneutral, da sie keinen Schmutz und keine Bakterien annimmt und leicht zu reinigen ist. Sie widersteht jeder Art von chemischer und mechanischer Beanspruchung, gewährleistet eine lange Lebensdauer, brennt nicht und setzt keine schädlichen Substanzen frei. Aus diesem Grund ist sie schön, sicher und dank der großen Auswahl an Oberflächenausführungen, Formaten und Stärken für unterschiedlichste Anwendungen geeignet. Darüber hinaus stellt sie ein vollständig recycelbares Material dar, enthält keine Kunststoffe und wird in umwelt- und gesundheitsschonenden Fertigungsverfahren hergestellt.

bios
self-cleaning

Bios Self-Cleaning® _ È la soluzione innovativa per i rivestimenti di facciata, in grado di qualificare gli involucri architettonici con elevate prestazioni di autopulizia e di abbattimento degli agenti inquinanti.

An innovative façade cladding solution that ensures high self-cleaning and pollution abatement performance for architectural envelopes.



SOSTENIBILE SUSTAINABLE

Completamente riciclabile.
Non contiene plastica.

Fully recyclable.
Does not contain plastic.



ECOLOGICA ENVIRONMENTALLY FRIENDLY

Rispetta ambiente e salute.
Conforme alle normative europee.

Helps protect the environment and human health.
Meets all applicable European standards.



IGIENICA IHYGIENIC

Inodore, non trattiene sporco e batteri.
Facile da pulire.

Odourless, does not retain dirt and bacteria.
Easy to clean.



DUREVOLE LONG-LASTING

Resistente a sollecitazioni esterne e abrasioni.

Withstands abrasion and stress.



IGNIFUGA FIRE-RESISTANT

Non brucia.
Non rilascia sostanze nocive

Does not burn.
Does not release harmful substances.



STABILE STABLE

Colori inalterabili nel tempo.
Non si deforma.

Colours don't fade over time.
Does not warp.



INGELIVA FROST-RESISTANT

Resiste al gelo e agli sbalzi di temperatura.

Withstands frost and temperature fluctuations.



INASSORBENTE NON-ABSORBENT

Non assorbe acqua.

Does not absorb water.



RESISTENTE STURDY

Inattaccabile da agenti chimici aggressivi.

Resists aggressive chemicals.

Un impegno concreto, per uno sviluppo sostenibile

Our commitment towards sustainable development / Un engagement concret pour un développement durable / Ein konkretes Engagement für eine nachhaltige Entwicklung

Produrre materiali ceramici evoluti ed ecologici in un corretto equilibrio tra rispetto delle risorse naturali, protezione dell'ambiente, progresso tecnologico, crescita economica e responsabilità sociale sono caratteri profondamente radicati nel DNA di Casalgrande Padana. Priva di smalti e costituita esclusivamente da materie prime naturali la ceramica è ottenuta mediante un processo produttivo a ciclo chiuso, dove sofisticate apparecchiature antinquinamento consentono il riciclo e il recupero completo di tutte le componenti, con emissioni e dispersioni sostanzialmente nulle. Resistente, duratura e affidabile, la ceramica è una scelta progettuale decisamente orientata ai principi della sostenibilità.

Casalgrande Padana manufactures state-of-the-art ceramic materials keeping a perfect balance between natural resource protection, environment protection, advanced technology, economic growth, and social responsibility. Our ceramic is glaze-free and made exclusively from natural raw materials through a closed-cycle manufacturing process where sophisticated antipollution equipment allow all the components to be recycled and reused, with substantially zero emissions or dispersions. Ceramic is sturdy, long-lasting, and reliable. The perfect choice for sustainable architecture.

Produire des matériaux céramiques innovants et écologiques en maintenant un bon équilibre entre le respect des ressources naturelles, la protection de l'environnement, le progrès technologique, la croissance économique et la responsabilité sociale sont des éléments profondément ancrés dans l'ADN de Casalgrande Padana. Sans émail et réalisée exclusivement à partir de matières premières naturelles, la céramique est obtenue à travers un processus de production à circuit fermé, où des équipements sophistiqués antipollution permettent le recyclage et la récupération complète de tous les composants, avec des émissions et des dispersions pratiquement nulles. Résistante, durable et fiable, la céramique est un choix de conception fortement orienté vers les principes de la durabilité.

Fortschrittliche und ökologische Keramikmaterialien in der richtigen Balance zwischen Wahrung natürlicher Ressourcen, Umweltschutz, technischer Entwicklung, wirtschaftlichem Wachstum und sozialer Verantwortung herzustellen, ist eine Eigenschaft, die zutiefst in der DNS von Casalgrande Padana verankert ist. Ohne Lacke und ausschließlich aus natürlichen Rohstoffen gefertigt, wird Keramik in einem Herstellungsprozess mit geschlossenem Kreislauf gewonnen, in dem hochentwickelte Anlagen zur Vermeidung von Umweltverschmutzung das vollständige Recycling und die Rückgewinnung aller Komponenten ohne substanzielle Emissionen und Dispersionen ermöglichen. Aufgrund ihrer Widerstandsfähigkeit, Langlebigkeit und Zuverlässigkeit ist Keramik eine Gestaltungswahl, die sich entschieden an den Prinzipien der Nachhaltigkeit orientiert.



UNI EN ISO 14001:2015



Casalgrande Padana ha adottato un sistema di gestione ambientale conforme al Regolamento EMAS allo scopo di attuare il miglioramento continuo delle proprie prestazioni ambientali pubblicando una dichiarazione ambientale convalidata dall'ente certificatore.

Casalgrande Padana has adopted an environmental management system that complies with the EMAS regulation to continuously improve our environmental performance. We have also published the environmental statement validated by the certification body.



20.300 t

MATERIE PRIME RECUPERATE RECOVERED RAW MATERIALS

Utilizzo di scarti calcolati sul volume di produzione 2019.

Use of scrap calculated on the 2019 production volume.



100%

IMBALLI ECOCOMPATIBILI ECO-COMPATIBLE PACKAGING

Impiego di Pallet Fao e imballi realizzati con materiali riciclati.

We use FAO pallets and packaging made with recycled materials.



100%

RIDUZIONE DELL'IMPATTO IDRICO WATER IMPACT REDUCTION

Recupero delle acque reflue nel processo produttivo.

Wastewater recovery during the production process.



77%

ENERGIA AUTOPRODOTTA SELF-PRODUCED ENERGY

Generata da impianti fotovoltaici e di cogenerazione.

Thanks to our cogeneration and photovoltaic systems.



SISTEMA DI GESTIONE SICUREZZA CERTIFICATO UNI ISO 45001:2018 CERTIFIED SAFETY MANAGEMENT SYSTEM UNI ISO 45001:2018

Produzione e commercializzazione di pavimenti e rivestimenti in ceramica.

Production and marketing of ceramic floor and wall tiles.



99,5%

RIFIUTI RECUPERATI WASTE RECOVERED

Inviati alla raccolta differenziata.

Thanks to separate waste collection.

POSA IN OPERA

La riuscita di un pavimento è dovuta non solo alla qualità delle piastrelle, ma a tutto un insieme di elementi (sottofondo, strato legante, giunti di dilatazione, ecc.) che costituiscono un vero e proprio sistema. Ecco perché le operazioni di posa sono da considerarsi importanti tanto quanto la scelta delle piastrelle.

È comunque compito del progettista stabilire, in funzione della struttura e della destinazione d'uso del piano di calpestio, il corretto modo di applicazione delle piastrelle e il tipo di piastrella da utilizzare. Le piastrelle Casalgrande Padana non si differenziano, per quanto riguarda le operazioni di posa, da una qualsiasi altra ceramica e si può quindi seguire sia il sistema tradizionale con malta cementizia, che quello con collanti o adesivi.

Per i formati oltre il 30x30 cm è consigliabile ricorrere ad un sistema di posa con adesivo, da prescriversi in funzione dell'ambiente di destinazione, della tipologia e delle caratteristiche del supporto di posa, del formato considerato e dei carichi statici/dinamici agenti sulla piastrellatura ceramica.

Ricorrendo alla posa con adesivo è inoltre necessario verificare, prima di procedere alla posa, che il supporto possieda idonee caratteristiche per l'incollaggio della ceramica, quali: stabilità e regolarità dimensionale, rigidità, assenza di fessurazioni, pulizia e integrità superficiale, assenza di umidità in eccesso e/o di agenti contaminanti. Prima di iniziare le operazioni di posa di una qualsiasi superficie si raccomanda di accertarsi che la partita di grès sia adeguata e sufficiente per quantità, tono e calibro, a quella necessaria. Si dovranno poi seguire tutte le norme e le precauzioni che sono alla base di una corretta esecuzione del lavoro (preparazione del sottofondo, composizione della malta o dei collanti, tempi di maturazione, posizionamento dei giunti di dilatazione, battitura, ecc.).

Se per ambienti di grandi dimensioni è assolutamente necessario posizionare i giunti con regolarità, per piccoli ambienti è sufficiente lasciare un leggero stacco fra piastrellato e muri perimetrali. Sarà poi il battiscopa a coprire lo stacco dando un aspetto di finitura.

Evitare il transito sul pavimento per almeno 2/3 giorni dopo la posa. In caso di necessità di transito si dovrà predisporre un tavolato appoggiato sul pavimento.

Tenere presente che, nel caso di posa col sistema tradizionale e in mancanza di particolari additivi nella malta, è necessario attendere anche un mese prima di sottoporre il pavimento a sollecitazioni e carichi di esercizio. Le piastrelle Granitogres, Pietre Native e Granitoker pur essendo materiale molto resistente, possono essere sagomate o perforate per l'installazione di impianti tecnico sanitari, utilizzando una attrezzatura adeguata.

Prima pulizia

Ha lo scopo di eliminare ogni traccia di cemento o stucco conseguente alla chiusura dei giunti. Si esegue normalmente una sola volta prima dell'utilizzo del pavimento/rivestimento e deve essere obbligatoriamente eseguita prima dell'uso del pavimento/rivestimento.

Procedere nel modo seguente:

1. Spazzare il pavimento/rivestimento raccogliendo lo sporco grossolano.
2. Inumidire con acqua la superficie affinché le fughe vengano impregnate e pertanto protette dall'azione corrosiva del detergente a componente acido (decalcificante).
3. Stendere il detergente (vedi nota A) nella concentrazione (rapporto di miscelazione con l'acqua) indicata dal produttore, applicandolo con una spazzola manuale o motorizzata. Evitare che il detergente acido venga a contatto con componenti di acciaio, alluminio e marmo naturale adiacenti al pavimento/rivestimento.
4. Durante il tempo d'azione del detergente, che deve essere stabilito in relazione allo stato del pavimento, strofinare lo sporco più ostinato (e raschiare eventuali residui di malta, stucco, etc...).
5. Sciacquare il pavimento/rivestimento con acqua e raccogliere subito l'acqua sporca (manualmente o con un apparecchio lavasciuga).

Se la prima pulizia viene eseguita dopo che il pavimento/rivestimento è già stato usato, sarà bene, prima dell'applicazione del detergente a base acida, togliere con appositi detersivi alcalini (sgrassanti) eventuali presenze di sostanze grasse o simili (vedi Pulizia ordinaria).

L'operazione di prima pulizia, se ritenuto necessario, può essere ripetuta.

Superficie levigata, lucida e lappata

Com'è noto tutte le superfici lucide subiscono con l'uso un processo di opacizzazione. Nel caso dei prodotti **Casalgrande Padana**, grazie alle peculiari caratteristiche tecniche, questo processo è più lento rispetto a qualsiasi altro materiale naturale (marmo, granito, pietre...). Per conservare tuttavia il più a lungo possibile la lucentezza originale del pavimento è bene proteggere l'ingresso del locale pavimentato, specie se questo è in diretta comunicazione con ambienti esterni, con uno zerbino che possa trattenere il più possibile polveri o altre sostanze abrasive fuori dal pavimento.

Una leggera diminuzione della lucentezza, a seguito del primo lavaggio acido del pavimento, deve essere considerata normale, perché dovuta alla eliminazione dei residui degli abrasivi utilizzati nella lavorazione della superficie.

A) Alcuni detergenti consigliati per eliminare i residui di stucco:

Fughe realizzate con stucco cementizio - detergenti a componente acida (decalcificanti)

Deterprimo plus (Casalgrande Padana), Deterdek (Fila), Keranet (Mapei), Deltaplus (Kerakoll), Solvacid (Geal) o simili (seguire istruzioni del produttore del detergente).

Fughe realizzate con stucco epossidico - detergenti a componente alcalina

Fuga-Soap Eco (Kerakoll), Kerapoxy Cleaner (Mapei), Tile Cleaner (Faber), CR10 (Fila), Lithofin Resin-Ex (Lithofin), Eposolv (Geal) o simili (seguire istruzioni del produttore del detergente).

Pulizia ordinaria

Per la pulizia di tutti i giorni è sufficiente lavare il pavimento/rivestimento con acqua e aggiunta di normali prodotti detergenti adatti a pulire superfici ceramiche (per i rivestimenti utilizzare detergenti in gel).

*Assicurarsi che i detergenti non contengano sostanze cerose; la superficie dei prodotti **Casalgrande Padana**, essendo praticamente inassorbente, non richiede l'applicazione di cere e/o prodotti silicnici di protezione che, al contrario, non debbono mai essere usati perché possono creare un film superficiale che andrebbe a modificare le caratteristiche naturali del grès porcellanato.*

In presenza di macchie persistenti e difficili da togliere con la semplice pulizia ordinaria, intervenire con impiego di detergenti più concentrati lasciando agire gli stessi per un adeguato intervallo di tempo e, successivamente, strofinare con adeguata intensità, fino a ricondurre le piastrelle all'aspetto originario. Al riguardo è opportuno segnalare che il grès è resistente a qualsiasi sostanza chimica, **eccezion fatta per l'acido fluoridrico che attacca tutti i prodotti ceramici e che, quindi, non deve mai essere utilizzato.**

Per la pulizia di pavimenti in aree pubbliche si consiglia di intervenire dopo la chiusura dei locali, affinché il pavimento alla riapertura sia asciutto; in alternativa isolare il pavimento pulito fino alla sua completa asciugatura.

Per i locali di maggiore estensione è opportuno disporre di macchine lavasciuga, per assicurare una perfetta pulizia e igienicità.

Il pavimento deve essere considerato pulito quando riacquista il suo aspetto originario!

Superfici in rilievo (antislip)

Queste superfici, impiegate normalmente in ambienti industriali o di lavoro, richiedono particolari accorgimenti per la loro manutenzione. Per i locali di maggiore estensione è opportuno disporre di macchine lavasciuga, per assicurare una perfetta pulizia e igienicità. Altro metodo usato in questo tipo di pavimenti è quello mediante idropulitrice.

INSTALLATION

The successful installation of floors depends not only on the quality of tiles but on a combination of factors (bedding, binding layer, expansion joints, etc.) that constitute a real system.

That is why installation operations are to be considered as important as the choice of tiles. However, based on the structure and purpose of the flooring surface, the designer is still responsible for defining the correct procedure to lay the tiles and selecting the ones to be employed. When it comes to installation operations, Casalgrande Padana tiles do not differ from any other type of ceramic: either the traditional procedure envisaging cement mortar or the procedure envisaging glues and adhesives may be resorted to.

For tiles larger than 30x30 cm, we recommend using an installation system with an adhesive according to the intended use of the room, type and characteristics of the substrate, and size in consideration of the static/dynamic loads on the ceramic tiles.

If you use an adhesive, you must first ensure that the substrate has suitable characteristics for glueing ceramics, such as stability and dimensional regularity, rigidity, absence of cracks, clean and intact surface, and absence of excess moist and/or contaminants.

Before starting the installation operations of any surface, we recommend you make sure that the stoneware batch is adequate and sufficient in terms of quantity, tone and calibration. Moreover, all necessary norms and precautions need to be implemented for the correct completion of the work (bedding preparation, composition of mortar or adhesives, maturing period, positioning expansion joints, ramming, etc.).

If in case of large environments joints must be positioned at regular intervals, in small environments a small gap between the tiles and perimeter walls is sufficient: the skirting board will cover the gap and provide the finishing effect. Avoid walking on the floor for at least 2/3 days after installation. If walking on the floor is necessary, lay wooden planks on the surface.

Please notice that if the tiles are installed with the traditional procedure and no additives are added to the mortar, at least one month has to elapse before the floor can be subjected to stress and operating loads.

Even though Granitogres, Pietre Native and Granitoker tiles are very resilient material, they can be shaped or perforated to install technical and sanitary systems, using appropriate equipment.

First clean

The purpose of first-time cleaning is to remove any trace of cement or plaster used to close the joints.

The flooring/wall covering is normally cleaned once before use. This must be done before the flooring/wall covering is used.

Proceed as follows:

1. Sweep the floor/covering to remove the coarser dirt.
2. Dampen the surface with water so as to soak the joints, thereby protecting them from the corrosive action of the acid detergent (descaling product).
3. Apply the detergent (see note A) in the concentration (water mixing ratio) indicated by the manufacturer using a manual or motorised brush. Avoid any contact between the acid detergent and the steel, aluminium, and natural marble components near the flooring/wall covering.
4. Leave the detergent on as long as needed, depending on the condition of the floor, then rub any stubborn dirt away (and scrape off residues of mortar, plaster, etc. ...).
5. Rinse the flooring/covering with water and mop up the dirty water immediately (manually or with a washer/drier).

If the flooring/wall covering is cleaned for the first time after being used, it is important to use appropriate alkaline detergents (degreasing agents) before applying the acid detergent to remove any greasy or similar substance (see Routine Cleaning).

If necessary, you can repeat the first-time cleaning operations described above.

Polished, gloss and lapped surfaces

All polished surfaces tend to become more opaque with use. Because of its outstanding technical properties, with **Casalgrande Padana**

products this process is slower than for any other natural material (marble, granite, stone, etc.). However, to protect the floor's shine for as long as possible, it's important to protect the entrance to the floored room, especially if it has an adjoining outdoor area, with a doormat that can keep as much dust or abrasive substances as possible off the floor.

A slight loss of shine after the first acid wash must be considered normal, as it is due to the removal of the abrasive residues used for processing the surface.

A) Here are a few detergents recommended for removing plaster residues:

Cement plaster joints – acid detergents (descaling products)

Deterprimo Plus (Casalgrande Padana), Deterdek (Fila), Keranet (Mapei), Deltaplus (Kerakoll), Solvacid (Geal) or similar detergents (follow the manufacturer's instructions).

Epoxy plaster joints – alkaline detergents

Fuga-Soap Eco (Kerakoll), Kerapoxy Cleaner (Mapei), Tile Cleaner (Faber), CR10 (Fila), Lithofin Resin-Ex (Lithofin), Eposolv (Geal) or similar detergents (follow the manufacturer's instructions).

Routine cleaning

For everyday cleaning, all you have to do is wash the flooring/wall covering with water and normal neutral detergents suitable for ceramic surfaces (for wall coverings use a neutral gel detergent gel).

*Make sure that the detergents do not contain waxy substances. The surfaces of **Casalgrande Padana** products are practically non-absorbent; therefore, the use of wax and/or silicone cleaners is not required. These should never be used, as they create a superficial film that changes the natural characteristics of porcelain stoneware.*

Should there be any stubborn stain that cannot be removed by routine cleaning, use a more concentrated detergent and leave it on for long enough, then rub harder until the tiles are back to their original condition. Note that porcelain stoneware is resistant to any chemical, **except hydrofluoric acid, which eats into any ceramic, so it must never be used.**

Floors of public areas should be cleaned when the place is closed, so the floor will be dry when it reopens; otherwise, fence off the cleaned floor until perfectly dry.

For larger places, use a washer/drier to ensure perfect cleanliness and hygiene.

The flooring is to be considered clean when it returns to its original appearance!

Anti-slip flooring

These surfaces are normally used in industrial or work environments and require a few extra measures for their maintenance.

For larger places, use a washer/drier to ensure perfect cleanliness and hygiene. These floors can also be cleaned using a pressure washer.

POSE

Un bon sol dépend non seulement de la qualité des carreaux, mais aussi de toute une série d'éléments qui constituent un seul tout (couche de fond, couche d'un agent liant, joints de dilatation, etc.). C'est pourquoi les opérations de pose sont tout aussi importantes que le choix du carrelage. Il appartient à l'architecte d'établir le type de carrelage à utiliser en fonction du lieu et de l'utilisation du sol ainsi que la meilleure méthode de pose des carreaux. En ce qui concerne les opérations de pose les carreaux Casalgrande Padana ne sont pas différentes des autres carreaux céramiques et il est donc possible de suivre la méthode traditionnelle en utilisant du mortier de ciment ou d'utiliser des colles ou autres produits adhésifs.

Pour les formats excédant 30x30 cm, il est conseillé de recourir à un système de pose avec de l'adhésif, à adopter en fonction de l'environnement de destination, de la typologie et des caractéristiques du support de pose, du format envisagé et des charges statiques/dynamiques appliquées sur le carrelage en céramique.

Avant de procéder à ce type de pose, il est également nécessaire de s'assurer que le support possède les caractéristiques appropriées pour le collage de la céramique. Ces caractéristiques sont les suivantes : stabilité et régularité dimensionnelle, rigidité, absence de fissures, nettoyage et intégrité de la surface, absence d'excès d'humidité et/ou d'agents de contamination. Avant de commencer les opérations de pose, il est recommandé de vérifier que les lots de carreaux en grès correspondent bien à la quantité, à la couleur et au calibre nécessaires. Il faut ensuite respecter toutes les normes et les précautions qui sont à la base de la bonne exécution des travaux (préparation de la couche de fond, composition du mortier ou des colles, positionnement des joints de dilatation, nivellement à l'aide du maillet, temps de séchage, etc.). Pour les grandes surfaces, il est absolument nécessaire de positionner les joints avec la plus grande régularité, tandis que pour les petites surfaces, il suffira de laisser un léger écart entre le carrelage et les murs périmétraux.

Ce seront ensuite les plinthes qui couvriront l'écart pour donner l'aspect de finition. Après la pose, éviter de marcher sur le sol pendant au moins 2 ou 3 jours. Si le passage s'avère nécessaire, il faudra poser des planches sur le sol. Ne pas oublier qu'en cas de pose en suivant la méthode traditionnelle et en absence d'additifs particuliers dans le mortier, il faut attendre même un mois avant de soumettre le sol à toute charge et/ou sollicitation. Même si les carreaux des séries Granitogres, Pietre Native et Granitoker sont extrêmement résistants, ils peuvent être façonnés et perforés pour installer les équipements technicosanitaires en utilisant les outils appropriés.

Premier nettoyage

Son but est d'éliminer toute trace de ciment ou de mortier-colle après le jointoiment. Cette opération est généralement effectuée une seule fois avant d'utiliser le revêtement sol/mur, et il faut obligatoirement l'effectuer avant toute utilisation du revêtement sol/mur.

Procéder de la manière suivante :

1. Balayer/épousseter le revêtement sol/mur en éliminant toutes traces d'impuretés.
2. Humidifier la surface avec de l'eau de manière à bien imprégner les joints afin qu'ils soient ainsi bien protégés de l'action corrosive du nettoyant acide (décalcifiant).
3. Respecter la concentration (quantité à diluer dans l'eau) indiquée par le fabricant pour l'utilisation du produit nettoyant, et appliquer le produit (voir note A) à l'aide d'une brosse manuelle ou motorisée. Veillez à ce que le nettoyant acide n'entre pas en contact d'éléments en acier et en aluminium, ou d'éléments en marbre naturel placés à proximité du revêtement sol/mur.
4. Pendant le temps d'action du nettoyant, à établir en fonction de l'état du sol, frotter les taches les plus persistantes (et racler d'éventuels résidus de mortier, de mortier-colle, etc.).
5. Rincer le revêtement sol/mur avec de l'eau, puis éliminer immédiatement l'eau sale (à la main ou avec un appareil de nettoyage à aspiration d'eau).

Si le premier nettoyage est effectué après avoir utilisé le revêtement sol/mur, avant d'appliquer le nettoyant acide, il est conseillé d'éliminer toute éventuelle trace de substance grasse ou similaire en utilisant les nettoyants alcalins (dégraissants) prévus à cet effet (voir Nettoyage

ordinaire).

S'il y a lieu, répéter cette première opération de nettoyage.

Surface polie, brillante ou poncée

Il est notoire que les surfaces brillantes ont tendance à se ternir au fil du temps. Dans le cas des produits **Casalgrande Padana**, leurs caractéristiques techniques particulières permettent de ralentir ce processus par rapport à tout autre matériau naturel (marbre, granit, pierres, etc.). Pour conserver plus longtemps l'éclat original du sol, il est conseillé de protéger l'entrée de la pièce avec un tapis ou avec un paillasson en cas de pièces donnant sur l'extérieur, en empêchant ainsi que la poussière et/ou d'autres substances abrasives ne puissent se déposer sur le sol. Après le premier lavage avec le produit acide, une légère diminution de la brillance doit être considérée normale, étant due à l'élimination des résidus abrasifs utilisés lors du traitement de surface effectué en usine.

A) Voici certains nettoyants conseillés pour éliminer les résidus de mortier-colle :

Joints réalisés en mortier-ciment – nettoyants acides (décalcifiants)

Deterprimo plus (Casalgrande Padana), Deterdek (Fila), Keranet (Mapei), Deltaplus (Kerakoll), Solvacid (Geal) ou produits similaires (suivre les instructions du fabricant du produit nettoyant).

Joints réalisés en mortier-époxy – nettoyants alcalins

Fuga-Soap Eco (Kerakoll), Kerapoxy Cleaner (Mapei), Tile Cleaner (Faber), CR10 (Fila), Lithofin Resin-Ex (Lithofin), Eposolv (Geal) ou produits similaires (suivre les instructions du fabricant du produit nettoyant).

Nettoyage ordinaire

Pour le nettoyage quotidien, il suffit de laver le revêtement sol/mur avec de l'eau en y diluant des produits nettoyants adaptés aux surfaces en céramique (pour les murs, utiliser des produits nettoyants sous forme de gel).

*S'assurer que les produits nettoyants ne contiennent pas de substances à base de cire ; la surface des produits **Casalgrande Padana** étant pratiquement non absorbante, il n'y a aucun besoin de passer ni cire ni autre produit similaire de protection à base de silicone ; bien au contraire, ces produits ne doivent jamais être utilisés car ils pourraient créer un film superficiel susceptible de modifier les caractéristiques naturelles du grès cérame.*

Néanmoins, en cas de taches persistantes et difficiles à éliminer par un simple nettoyage ordinaire, utiliser un produit nettoyant plus puissant en le laissant agir pendant un temps adéquat, puis frotter énergiquement jusqu'à ce que le carrelage retrouve son aspect d'origine. Il est intéressant de signaler que le grès résiste aux substances chimiques, **à l'exception de l'acide fluorhydrique qui attaque tous les produits céramiques et qui ne doit donc jamais être utilisé.**

Pour le nettoyage de lieux publics, il est conseillé d'effectuer l'entretien après la fermeture des locaux, afin que le sol soit bien sec avant la réouverture. En alternative, isoler le sol nettoyé jusqu'à ce qu'il soit complètement sec.

Pour le nettoyage des sols sur de grandes surfaces, il convient d'utiliser des autolaveuses, pour garantir une hygiène et un nettoyage parfaits.

Le sol doit être considéré comme propre lorsqu'il retrouve son aspect d'origine !

Surfaces en relief (antidérapant)

Pour l'entretien de ces surfaces, employées habituellement dans des environnements industriels ou professionnels, il convient de prendre des précautions particulières. Pour les grandes surfaces, il convient d'utiliser des autolaveuses pour garantir un nettoyage optimal et une hygiène parfaite. Une autre méthode consiste à utiliser des machines de nettoyage à l'eau sous pression.

VERLEGUNG

Das gute Gelingen einer Bodengestaltung hängt nicht nur von der Qualität der Fliesen ab, sondern von einer ganzen Reihe Elemente (Untergrund, Bindschicht, Dehnungsfugen, usw.), die ein Gesamtsystem bilden. Deshalb sind die Verlegungsarbeiten genauso wichtig wie die Wahl der Fliesen. Es ist die Aufgabe des Planers, in Funktion der Struktur und des Bestimmungszweckes der Bodenfläche die korrekte Fliesenanbringungsmethode und die Art der einzusetzenden Fliesen zu bestimmen. Casalgrande Padana Fliesen unterscheiden sich in Bezug auf die Verlegungsarbeiten nicht von jeder anderen Keramik, sodass die Verlegung sowohl mit dem traditionellen Zementmörtelsystem als auch mit Leimen oder Klebstoffen erfolgen kann.

Für Formate über 30x30 cm sollte auf ein klebstoffbasiertes Verlegungssystem zurückgegriffen werden. Die Entscheidung für eine bestimmte Methode orientiert sich an der vorgesehenen Umgebung, an Art und Eigenschaften des Untergrunds, am gewünschten Format und an der auf die Fliesen einwirkende statische bzw. dynamische Kraft. Die Verlegung mit Klebstoff erfordert zudem eine Prüfung, ob der Untergrund die entsprechenden Eigenschaften für eine Verklebung von Keramikfliesen besitzt. Entscheidend hierfür sind ein gleichbleibendes, regelmäßiges Flächenmaß, Steifigkeit, keine Risse, saubere Oberfläche frei von Fehlstellen, keine verbleibende Feuchtigkeit und/oder Schadstoffverunreinigungen. Vor Beginn der Verlegung auf irgendwelchen Oberflächen ist unbedingt sicher zu stellen, dass das Steinzeug geeignet ist und in der notwendigen Menge und im gewünschten Farbton und Werkmaß zur Verfügung steht. Daraufhin sind alle Vorschriften und Vorkehrungen zu befolgen, die einer korrekten Ausführung der Arbeiten zu Grunde liegen (Vorbereitung des Untergrundes, Zubereitung des Mörtels oder der Kleber, Abbindezeiten, Position der Dehnungsfugen, Anklopfen, usw.). In großflächigen Bereichen sind die Dehnungsfugen unbedingt regelmäßig einzuplanen, während es in kleinen Bereichen genügt, ein wenig Abstand zwischen Fliesenfläche und Randmauern zu lassen. Mit der Sockelleiste wird dieser Abstand dann abgedeckt, um den Boden fertig zu stellen.

Nach dem Verlegen darf der Boden mindestens 2-3 Tage nicht begangen werden. Falls ein Begehen notwendig sein sollte, sind vorher Bretter auf den Boden zu legen. Es ist zu berücksichtigen, dass es bei der Verlegung mit dem traditionellen System und ohne spezielle Zusatzstoffe im Mörtel notwendig ist, noch einen Monat zu warten, bevor der Boden Beanspruchungen und Betriebslasten ausgesetzt wird. Trotzdem es sich bei Granitogres, Pietre Native und Granitoker um hochresistente Materialien handelt, lassen sich die Platten bei der Installation von technischesanitärere Anlagen mit der Anwendung von geeigneten Geraete formen oder bohren.

Erstreinigung

Sie dient dazu, nach der Verlegung jegliche Spur von Zement oder Fugenmörtel zu entfernen. Sie wird normalerweise nur einmal vor Beginn der Verwendung des Fußbodens bzw. der Wandverkleidung durchgeführt und sollte vor der Nutzung vorgenommen werden.

Gehen Sie dazu folgendermaßen vor:

1. Den Fußboden/die Verkleidung fegen und den groben Schmutz entfernen.
2. Die Oberfläche mit Wasser befeuchten, um die Fugen zu imprägnieren und somit vor der ätzenden Wirkung des säurehaltigen Reinigungsmittels (Kalklöser) zu schützen.
3. Das Reinigungsprodukt (siehe Anmerkung A) in der vom Hersteller vorgegebenen Konzentration (Mischverhältnis mit Wasser) mit einer Handbürste oder einer motorbetriebenen Bürste auftragen. Den Kontakt des säurehaltigen Reinigungsmittels mit etwaigen Komponenten aus Stahl, Aluminium und Naturmarmor vermeiden, die am Fußboden/an der Wandverkleidung angrenzen.
4. Während der Wirkzeit des Reinigungsmittels, die je nach Zustand des Fußbodens festzulegen ist, den hartnäckigsten Schmutz abreiben (und etwaige Mörtel- und Kittrückstände usw. abkratzen).
5. Den Fußboden/die Wandverkleidung mit Wasser abspülen und das Schmutzwasser sofort aufnehmen (von Hand oder mit einer Bodenreinigungsmaschine).

Wenn die Erstreinigung erst nach der Benutzung des Fußbodens/der

Wandverkleidung erfolgt, müssen vor der Anwendung des säurehaltigen Reinigungsmittels etwaige Fette oder ähnliche Stoffe mit geeigneten Alkalireinigern (Fettlösern) entfernt werden (siehe Normale Reinigung). Falls erforderlich, kann die Erstreinigung wiederholt werden.

Geschliffene, polierte und anpolierte Oberflächen

Bekanntlich werden alle glänzenden Oberflächen im Laufe der Zeit matt. Dank ihrer besonderen technischen Eigenschaften erfolgt dieser Vorgang bei den Produkten von **Casalgrande Padana** im Vergleich zu allen anderen natürlichen Materialien (Marmor, Granit, Naturstein, ...) langsamer. Um den ursprünglichen Glanz des Fußbodens jedoch so lange wie möglich zu bewahren, ist es ratsam, den Eingangsbereich, vor allem wenn dieser direkt nach außen führt, mit einer Fußmatte zu schützen, um Staub oder andere Schleifmittel so gut wie möglich vor dem Boden abzufangen.

Ein leichter Glanzverlust infolge der ersten säurehaltigen Wäsche des Fußbodens ist als normal zu betrachten, da er auf die Entfernung der Rückstände der für die Oberflächenbearbeitung verwendeten Schleifmittel zurückzuführen ist.

A) Einige empfohlene Reinigungsmittel zur Entfernung von Mörtelresten:

Verfugung mit Zementfugenmörtel – säurehaltige Reinigungsmittel (Kalklöser)

Deterprimo plus (Casalgrande Padana), Deterdek (Fila), Keranet (Mapei), Deltaplus (Kerakoll), Solvacid (Geal) oder ähnliche Mittel (die Angaben des Reinigungsmittelherstellers beachten).

Verfugung mit Epoxidfugenmörtel – alkalische Reinigungsmittel

Fuga-Soap Eco (Kerakoll), Kerapoxy Cleaner (Mapei), Tile Cleaner (Faber), CR10 (Fila), Lithofin Resin-Ex (Lithofin), Eposolv (Geal) oder ähnliche Mittel (die Angaben des Reinigungsmittelherstellers beachten).

Normale Reinigung

Für die Alltagsreinigung genügt es, den Fußboden/die Wandverkleidung mit Wasser und normalen Reinigungsmitteln für Keramikflächen zu reinigen (für Wandverkleidungen Gels verwenden).

*Da die Oberflächen der Produkte von **Casalgrande Padana** praktisch nicht aufnahmefähig sind, müssen für ihren Schutz keine Wachse und/oder silikonhaltige Produkte aufgetragen werden. Ganz im Gegenteil sollten diese niemals verwendet werden, da sie einen Oberflächenfilm bilden können, der die natürlichen Eigenschaften des Feinsteinzeugs verändert.*

Bei beständigen und schwer entfernbaren Flecken, die sich nicht mit einer einfachen normalen Reinigung beseitigen lassen, können konzentriertere Reinigungsmittel verwendet werden; diese sollte man für eine angemessene Zeit einwirken lassen und dann angemessen kräftig abreiben, bis die Platten wieder ihr ursprüngliches Aussehen zurückerhalten. Wir weisen darauf hin, dass Steinzeug gegen alle chemischen Mittel beständig ist, **mit Ausnahme von Fluorwasserstoffsäure, die alle Keramikprodukte angreift und daher niemals verwendet werden darf.**

In öffentlichen Bereichen sollte die Reinigung nach der Schließzeit vorgenommen werden, damit der Boden bei der Wiedereröffnung trocken ist; anderenfalls sollte der gereinigte Bereich bis zur kompletten Trocknung abgesperrt werden.

Für große Räumlichkeiten ist der Einsatz von Reinigungsmaschinen empfehlenswert, um eine perfekte Reinigung und Hygiene sicherzustellen.

Der Bodenbelag gilt als sauber, wenn er sein ursprüngliches Aussehen wieder angenommen hat!

Reliefoberflächen (rutschfest)

Diese Oberflächen, die in der Regel im Bereich der Industrie oder an Arbeitsplätzen verwendet werden, erfordern für ihre Pflege besondere Maßnahmen. Für große Räumlichkeiten ist der Einsatz von Reinigungsmaschinen empfehlenswert, um eine perfekte Reinigung und Hygiene sicherzustellen. Eine andere Methode, die für diese Art von Bodenbelag verwendet werden kann, ist die Reinigung mit einem Hochdruckreiniger.



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Cover photo features Color Wheel™ Classic Ocean Blue, Galaxy, & Desert Grey 6 x 6 on the wall with Emerson Wood™ Brazilian Walnut 8 x 48 on the floor. Above photo features Color Wheel™ Classic Artic White & Navy on the walls.

SIZES:



FINISHES: MATTE | SEMI-GLOSS

SEMI-GLOSS

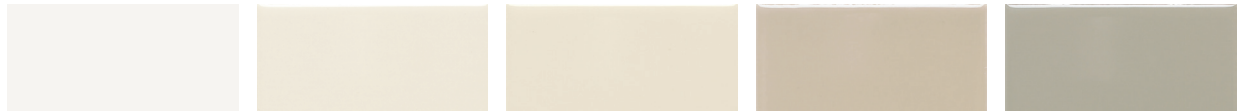


WHITE 0100 (1) ARCTIC WHITE 0190 (1) BISCUIT K175 (1) ALMOND 0135 (1) URBAN PUTTY 0161 (2) ARCHITECTURAL GRAY 0109 (2)



ELEMENTAL TAN 0166 (2) ARTISAN BROWN 0144 (2) DESERT GRAY X114 (1) SUEDE GRAY 0182 (2) CHALKBOARD 0180 (2) BLACK K111 (2)

MATTE



MATTE ARCTIC WHITE 0790 (1) MATTE BISCUIT K775 (1) MATTE ALMOND X735 (1) MATTE URBAN PUTTY 0761 (2) MATTE ARCHITECTURAL GRAY 0709 (2)



MATTE ELEMENTAL TAN 0766 (2) MATTE ARTISAN BROWN 0744 (2) MATTE DESERT GRAY X714 (1) MATTE SUEDE GRAY 0782 (2) MATTE CHALKBOARD 0780 (2) MATTE BLACK K711 (2)

ACCENT*



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SPA 0148 (3) GARDEN SPOT 0141 (3) KEY LIME 1098 (3) ELECTRIC BLUE 1194 (3) COBALT DM14 (3)† WOOD VIOLET 1467 (3)



WATERFALL 0169 (3) EMERALD 0115 (3) OCEAN BLUE 1049 (3) SEA BREEZE 1174 (3) GALAXY 1469 (3) NAVY K189 (3)

* Accent available in Semi-Gloss finish only. † Subject to crazing; black grout not recommended
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TRIM

TRIM		Thickness	Pieces/ Carton
 S1/212J / 1/2 x 12 Jolly	(1/2" x 11-15/16") (1.29 cm x 30.36 cm)	1/4" 7.23 mm	12
 A106 / 1 x 6 Quarter Round	(1" x 6") (2.43 cm x 15.16 cm)	5/16" 7.90 mm	152
 AC106 / 1 x 6 Quarter Round Corner	(1" x 6") (2.43 cm x 15.16 cm)	5/16" 7.90 mm	120
SURFACE BULLNOSE			
 S4269 / 2 x 6 Bullnose	(2" x 6") (5.15 cm x 15.31 cm)	5/16" 7.90 mm	100
 SN4269 / 2 x 2 Bullnose Corner	(2" x 2") (5.15 cm x 5.15 cm)	5/16" 7.90 mm	25
 S4669 / 6 x 6 Bullnose	(6" x 6") (15.31 cm x 15.31 cm)	5/16" 7.90 mm	50
 SCRL4669 / 6 x 6 Bullnose Corner	(6" x 6") (15.31 cm x 15.31 cm)	5/16" 7.90 mm	50
 S4449 / 4 x 4 Bullnose	(4-1/4" x 4-1/4") (10.90 cm x 10.90 cm)	5/16" 7.90 mm	100
 SCRL4449 / 4 x 4 Bullnose Corner	(4-1/4" x 4-1/4") (10.90 cm x 10.90 cm)	5/16" 7.90 mm	100
 S4369MOD / 3 x 6 Bullnose (on 6" side)	(3" x 6") (7.65 cm x 15.31 cm)	5/16" 7.90 mm	100
 S4639MOD / 3 x 6 Bullnose (on 3" side)	(3" x 6") (7.65 cm x 15.31 cm)	5/16" 7.90 mm	100
 SCR4369M / 3 x 6 Bullnose Corner Right	(3" x 6") (7.65 cm x 15.31 cm)	5/16" 7.90 mm	100
 SCL4369M / 3 x 6 Bullnose Corner Left	(3" x 6") (7.65 cm x 15.31 cm)	5/16" 7.90 mm	100
RADIUS BULLNOSE			
 A4200 / 2 x 6 Bullnose	(2" x 6") (5.28 cm x 15.20 cm)	5/16" 7.90 mm	100
 AN4200 / 2 x 2 Bullnose Corner	(2" x 2") (5.28 cm x 5.28 cm)	5/16" 7.90 mm	20
FLAT TOP COVE BASE ^			
 A3601 / 6 x 6 Cove Base	(6" x 6") (15.31 cm x 15.31 cm)	5/16" 7.90 mm	44
 SCR3601 / 6 x 6 Cove Corner Right	(6" x 6") (15.31 cm x 15.31 cm)	5/16" 7.90 mm	20
 SCL3601 / 6 x 6 Cove Corner Left	(6" x 6") (15.31 cm x 15.31 cm)	5/16" 7.90 mm	20
 A3401 / 4 x 4 Cove Base	(4-1/4" x 4-1/4") (10.90 cm x 10.90 cm)	5/16" 7.90 mm	84
 SCR3401 / 4 x 4 Cove Corner Right	(4-1/4" x 4-1/4") (10.90 cm x 10.90 cm)	5/16" 7.90 mm	30
 SCL3401 / 4 x 4 Cove Corner Left	(4-1/4" x 4-1/4") (10.90 cm x 10.90 cm)	5/16" 7.90 mm	30
 A3361MOD / 3 x 6 Cove Base	(3" x 6") (7.65 cm x 15.31 cm)	5/16" 7.90 mm	36
 SCR3361M / 3 x 6 Cove Base Corner Right	(3" x 6") (7.65 cm x 15.31 cm)	5/16" 7.90 mm	36
 SCL3361M / 3 x 6 Cove Base Corner Left	(3" x 6") (7.65 cm x 15.31 cm)	5/16" 7.90 mm	36
SANITARY COVE BASE *			
 S3619T / 6 x 6 Cove Base	(6" x 6") (15.31 cm x 15.31 cm)	5/16" 7.90 mm	40
 SCR3619T / 6 x 6 Cove Base Corner Right	(6" x 6") (15.31 cm x 15.31 cm)	5/16" 7.90 mm	20

TRIM (CON'T)

		Thickness	Pieces/ Carton
 SCL3619T / 6 x 6 Cove Base Corner Left	(6" x 6") (15.31 cm x 15.31 cm)	5/16" 7.90 mm	20
 S3419T / 4 x 6 Cove Base	(4-1/4" x 6") (10.90 cm x 15.31 cm)	5/16" 7.90 mm	60
 SCR3419T / 4 x 6 Cove Base Corner Right	(4-1/4" x 6") (10.90 cm x 15.29 cm)	5/16" 7.90 mm	20
 SCL3419T / 4 x 6 Cove Base Corner Left	(4-1/4" x 6") (10.90 cm x 15.31 cm)	5/16" 7.90 mm	20
SANITARY COVE BASE - Slim Foot Design *			
 S3619TN / 6 x 6 Cove Base	(6" x 6") (15.31 cm x 15.31 cm)	5/16" 7.90 mm	40
 SC3619TN / 1 x 6 Cove Base Corner	(1" x 6") (2.43 cm x 15.16 cm)	5/16" 7.90 mm	60





* Available in Group 1 & 2 Colors. Group 3 Colors are Made-to-Order.

^ Available in Group 1 Colors. Group 2 & 3 Colors are Made-to-Order.

TRIM USAGE

Wall Tile	6 x 6	4 x 4	3 x 6	3 x 6 Bevel
Jolly	S1/212J	S1/212J	S1/212J	S1/212J
Quarter Round	A106	A106	A106	A106
Quarter Round Corner	AC106	AC106	AC106	AC106
SURFACE BULLNOSE				
Bullnose	S4669	S4449	S4369MOD & S4639MOD	
Corner	SCRL4669	SCRL4449	SCR4369M & SCL4369M	
Bullnose	S4269	S4269	S4269	
Corner	SN4269	SN4269	SN4269	SN4269
RADIUS BULLNOSE				
Bullnose	A4200	A4200	A4200	
Corner	AN4200	AN4200	AN4200	
FLAT TOP COVE BASE				
Cove Base	A3601	A3401	A3361MOD	A3361MOD
Cove Base Corner	SCR3601 & SCL3601	SCR3401 & SCL3401	SCR3361M & SCL3361M	SCR3361M & SCL3361M
	Best Match			

SIZES

			Thickness	Sq. Ft./ Carton	Pieces/ Carton
	6 x 6 Wall Tile	(6" x 6") (15.31 cm x 15.31 cm)	5/16" 7.90 mm	12.50	50
	4 x 4 Wall Tile	(4-1/4" x 4-1/4") (10.90 cm x 10.90 cm)	5/16" 7.90 mm	12.50	100
	3 x 6 Wall Tile	(3" x 6") (7.65 cm x 15.31 cm)	5/16" 7.90 mm	12.50	100
	3 x 6 † Bevel Wall Tile	(3" x 6") (7.65 cm x 15.31 cm)	3/8" 9.40 mm	10.40	80

† Bevel is available in Group 1 colors only. Other colors available through the ColorMatch™ Special Order program.

APPLICATIONS

	Target DCOF wet	Suitable
Dry & Level – Interior Floor	N/A	
Wet & Level – Interior Floor	≥ 0.42	
Shower Floors (Residential or Light Commercial)	≥ 0.42	
Exterior Floor Applications (including pool decking & other wet areas with minimal footwear)	≥ 0.60	
Ramps & Inclines	≥ 0.65	
Walls/Backsplashes	N/A	✓
Countertops	N/A	✓*
Pool Linings	N/A	✓


A DCOF value of ≥0.42 is the standard for tiles specified for level interior spaces expected to be walked upon when wet, as stated in ANSI A137.1-A326.3. For more information about DCOF and the DCOF AcuTest™, visit daltile.com/DCOF.

APPLICATION NOTES:

Suitable for exterior applications in non-freezing climates, when proper installation methods are followed.

* Matte finishes only. No Bevel Tile. Darker colors may show scratches.

INSTALLATION

Grout Joint Recommendation	Shade Variation
Wall: 1/16"	 Low (V1)

PERFORMANCE CHARACTERISTICS

	ASTM#	Result
Water Absorption	C373	< 20.0%
Breaking Strength	C648	120-230 lbs
Scratch Hardness	MOHS	4.0-6.0
Chemical Resistance	C650	Resistant
Abrasion Resistance	C1027	N/A

For additional information on test results, visit us at: daltile.com/information/TestResults.

NOTES

Since there are variations in all fired ceramic and natural products, tile and trim supplied for your particular installation may not match samples. Final confirmation should be made from actual tiles and trim prior to installation. Manufactured in accordance with ANSI A137.1 standards.

For additional information refer to "Factors to Consider" at: daltile.com/Factors.

LRV & MUNSELL

Color #	LRV Illuminate-OBS: F02-02 (CWF)	Munsell
SEMI-GLOSS		
0100	83.9	2.6Y 9.2/0.5
0190	83.9	7.0Y 9.2/0.2
K175	75.9	5.2Y 8.8/0.9
0135	68.0	2.9Y 8.4/1.2
0161	48.0	1.7Y 7.3/1.5
0166	26.8	1.1Y 5.7/1.6
0144	14.5	5.9YR 4.3/1.3
0109	37.9	6.0Y 6.6/1.0
X114	43.7	1.4GY 7.0/0.3
0182	22.6	1.9B 5.3/0.1
0180	11.4	1.3B 3.9/0.4
K111	5.0	10.0B 2.6/0.1
MATTE		
0790	83.4	4.9Y 9.2/0.2
K775	75.9	5.2Y 8.8/0.9
X735	70.9	3.5Y 8.6/1.2
0761	48.1	2.5Y 7.3/1.5
0766	26.8	0.2Y 5.7/1.7
0744	13.9	7.6YR 4.3/1.3
0709	36.9	5.6Y 6.5/1.0
X714	43.9	3.6GY 7.0/0.4
0782	22.3	9.8G 5.3/0.1
0780	11.1	0.6B 3.9/0.4
K711	5.8	3.3PB 2.8/0.1
ACCENT		
K189	5.9	5.0PB 2.9/1.2
1012	48.1	9.7YR 7.2/6.9
1049	18.0	1.9B 5.0/4.5
1097	26.4	10.1R 5.6/10.2
0115	11.7	3.3G 4.1/4.9
1174	9.1	5.8PB 3.6/5.6
1178	6.8	5.9RP 3.1/2.0
SH17	14.0	5.1R 4.4/11.1
0141	24.7	3.0GY 5.5/2.1
0148	48.3	3.7BG 7.4/1.3
0160	73.3	3.3Y 8.7/3.3
0169	40.4	9.7B 6.9/2.6
1469	9.3	4.5PB 3.6/2.7
DH50	70.6	4.7Y 8.4/8.8
DM14	4.7	9.9PB 2.5/4.4
1098	50.9	2.6GY 7.4/5.2
1194	19.0	0.3PB 5.2/6.7
1467	16.6	7.0P 4.6/2.2

 **POST-CONSUMER
RECYCLED MATERIALS**

 **PRE-CONSUMER
RECYCLED MATERIALS**

 **MADE IN THE U.S.A.**

All or select items within this series meet the requirements for these qualifications. For more information, visit daltile.com.

ZEROTOX
Healthy Homes | Healthy Planet

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Dallas, Texas 75217 | 1.800.933.TILE

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Daltile® products and information,
visit our website at daltile.com.

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WALL

LINEAR

COLOR WHEEL™ COLLECTION – GLAZED CERAMIC



LINEAR

COLOR WHEEL™ COLLECTION – GLAZED CERAMIC

A Spectacular Spectrum

The element of color is visually represented in Color Wheel™. This vibrant collection offers a wide spectrum of colorful selections from bright and pigmented hues to neutral and earthy tones. A favorite of artists and designers, Color Wheel provides the perfect palette to inspire the imagination.

- COLOR SCHEME
 - Eight rich semi-gloss and matte accent colors
 - Plus, eight coordinating neutral tones in semi-gloss and matte finishes
- ARTISTIC INSPIRATIONS
 - Stylish shapes in unique linear size options
 - With endless design opportunities, this collection is a perfect fit for residential and commercial applications



WALL

USAGE



FLOOR



WALL



COUNTERTOP



SHOWER FLOOR



EXTERIOR FLOOR



STEPWISE™



TRU-EDGE™



MADE IN THE U.S.A.



LARGE FORMAT



MOSAIC/DECO



ENCAUSTIC



TERRAZZO



PAVER



CUSTOMIZE



FLEXFIT™



G-GROUT



LOW HIGH

SPECIAL FEATURES

NOT APPLICABLE FOR ALL PRODUCTS IN THIS SERIES. SEE CHARTS FOR FULL PRODUCT DETAILS.

Cover photo features Color Wheel™ Linear Arctic White, Desert Gray & Chalkboard 6 x 18 on wall.

Above photo features Color Wheel™ Linear Matte Architectural Gray & Plum Crazy 6 x 18 on the wall.

SIZES:



8 x 24
Wall Tile



6 x 18
Wall Tile



4 x 16
Wall Tile



4 x 12
Wall Tile



4 x 8
Wall Tile



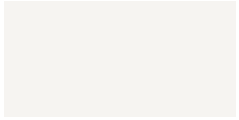
2 x 8
Wall Tile

FINISHES: MATTE | SEMI-GLOSS

SEMI-GLOSS



BLACKK111 (2)



ARCTIC WHITE
0190 (1)



BISCUIT
K175 (1)



URBAN PUTTY
0161 (2)



ARCHITECTURAL
GRAY 0109 (2)



DESERT GRAY
X114 (1)



SUEDE GRAY
0182 (2)



CHALKBOARD
0180 (2)

MATTE



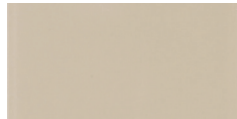
MATTE BLACK
K711 (2)



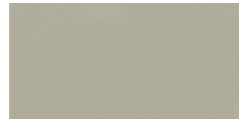
MATTE ARCTIC WHITE
0790 (1)



MATTE BISCUIT
K775 (1)



MATTE URBAN PUTTY 0761
(2)



MATTE ARCHITECTURAL
GRAY 0709 (2)



MATTE DESERT GRAY
X714 (1)



MATTE SUEDE GRAY
0782 (2)



MATTE CHALKBOARD 0780
(2)

ACCENT



MUSTARD
1012 (3)



ORANGE BURST
1097 (3)



CURRANT
SH17 (3)



OCEAN BLUE
1049 (3)



EMERALD
0115 (3)



SEA BREEZE
1174 (3)



NAVY*
K189 (3)



PLUM CRAZY
1178 (3)

MATTE ACCENT♦



MATTE MUSTARD
7012 (3)



MATTE ORANGE
BURST



MATTE CURRANT
SH77 (3)



MATTE OCEAN BLUE
7049 (3)



MATTE EMERALD
0715 (3)



MATTE SEA BREEZE
7174 (3)



MATTE NAVY*
K789 (3)



MATTE PLUM CRAZY
7178 (3)

(1), (2) and (3) indicate price groups. (1) being the least expensive.

* Subject to crazing, do not use black grout.

♦ Matte Accent colors are made-to-order.



STAINPROOF



DENTPROOF



SCRATCH-RESISTANT*
*Applicable to products with Matte and Textured Finishes



FIRE-RESISTANT



SIMPLICLEAN™







VISIT THE WHY TILE PAGE AT WWW.DAL TILE.COM FOR A COMPLETE LIST OF QUALIFICATIONS AND EXCLUSIONS.

LINEAR

COLOR WHEEL™ COLLECTION – GLAZED CERAMIC

WALL










SIZES

			Thickness	Sq. Ft./ Carton	Pieces/ Carton
	8 x 24 Wall Tile	(8" x 24") (20.34 cm x 61.03 cm)	3/8" (9.30 mm)	13.30	10
	6 x 18 Wall Tile	(6" x 18") (15.25 cm x 45.76 cm)	3/8" (9.30 mm)	11.25	15
	4 x 16 Wall Tile	(4" x 16") (10.17 cm x 40.68 cm)	3/8" (9.30 mm)	13.20	30
	4 x 12 Wall Tile	(4-1/4" x 12-7/8") (10.91 cm x 32.77 cm)	5/16" (7.90 mm)	10.64	28
	4 x 8 Wall Tile	(4-1/4" x 8-9/16") (10.91 cm x 21.82 cm)	5/16" (7.90 mm)	10.63	42
	2 x 8 Wall Tile	(2-1/8" x 8-9/16") (5.45 cm x 21.82 cm)	5/16" (7.90 mm)	10.40	80

LRV & MUNSELL

Color #	LRV Illuminate-OBS: F02-02 (CWF)	Munsell
SEMI-GLOSS		
0190	83.9	7.0Y 9.2/0.2
K175	75.9	5.2Y 8.8/0.9
0161	48.0	1.7Y 7.3/1.5
0109	37.9	6.0Y 6.6/1.0
X114	43.7	1.4GY 7.0/0.3
0182	22.6	1.9B 5.3/0.1
0180	11.4	1.3B 3.9/0.4
K111	5.0	10.0B 2.6/0.1
MATTE		
0790	83.4	4.9Y 9.2/0.2
K775	75.9	5.2Y 8.8/0.9
0761	48.1	2.5Y 7.3/1.5
0709	36.9	5.6Y 6.5/1.0
X714	43.9	3.6GY 7.0/0.4
0782	22.3	9.8G 5.3/0.1
0780	11.1	0.6B 3.9/0.4
K711	5.8	3.3PB 2.8/0.1
ACCENT		
K189	5.9	5.0PB 2.9/1.2
1012	48.1	9.7YR 7.2/6.9
1049	18.0	1.9B 5.0/4.5
1097	26.4	10.1R 5.6/10.2
0115	12.4	3.4G 4.2/4.6
1174	9.1	5.8PB 3.6/5.6
1178	6.8	5.9RP 3.1/2.0
SH17	14.0	5.1R 4.4/11.1
MATTE ACCENT		
0715	12.7	4.1G 4.3/4.4
7012	48.2	9.8YR 7.2/6.9
7049	18.2	2.0B 5.0/4.6
7097	26.8	10.0R 5.5/10.1
7174	9.3	5.8PB 3.7/5.6
7178	7.9	4.4RP 3.3/1.8
K789	6.0	5.1PB 2.9/1.2
SH77	15.1	4.7R 4.6/10.9

TRIM

		Thickness	Pieces/ Carton	
	S1/212J / 1/2 x 12 Jolly	(1/2" x 11-15/16") (1.29 cm x 30.36 cm)	1/4" (7.23 mm)	12
	S44D9 / 4 x 16 Bullnose (on 16" side)	(4" x 16") (10.17 cm x 40.68 cm)	3/8" (9.30 mm)	24
	SN44D9 / 4 x 4 Bullnose Corner	(4" x 4") (10.17 cm x 10.17 cm)	3/8" (9.30 mm)	20
	S44C9MOD / 4 x 12 Bullnose (on 12" side)	(4-1/4" x 12-7/8") (10.91 cm x 32.77 cm)	5/16" (7.90 mm)	28
	S4489MOD / 4 x 8 Bullnose (on 8" side)	(4-1/4" x 8-9/16") (10.91 cm x 21.82 cm)	5/16" (7.90 mm)	42
	SCRL4449 / 4 x 4 Bullnose Corner	(4-1/4" x 4-1/4") (10.91 cm x 10.91 cm)	5/16" (7.90 mm)	100
	S4289MOD / 2 x 8 Bullnose (on 8" side)	(2-1/8" x 8-9/16") (5.45 cm x 21.82 cm)	5/16" (7.90 mm)	80
	SN4289M / 2 x 2 Bullnose Corner	(2-1/8" x 2-1/8") (5.45 cm x 5.45 cm)	5/16" (7.90 mm)	25
	A34C1MOD / 4 x 12 Flat Top Cove Base	(4-1/4" x 12-7/8") (10.91 cm x 32.77 cm)	5/16" (7.90 mm)	40

TRIM USAGE

Wall Tile	8x24	6x18	4x16	4x12	4x8	2x8
Jolly	S1/212J	S1/212J	S1/212J	S1/212J	S1/212J	S1/212J
Quarter Round	A106	A106	A106	A106	A106	A106
Quarter Round Corner	AC106	AC106	AC106	AC106	AC106	AC106
SURFACE BULLNOSE						
Bullnose		S44D9	S44C9MOD	S4489MOD	S4289MOD	
Corner		SN44D9	SCRL4449	SCRL4449	SN4289M	
RADIUS BULLNOSE						
Bullnose	A4200	A4200	A4200	A4200	A4200	A4200
Corner	AN4200	AN4200	AN4200	AN4200	AN4200	AN4200
FLAT TOP COVE BASE						
Cove Base	A34C1MOD	A34C1MOD	A34C1MOD	A34C1MOD	A34C1MOD	A34C1MOD
Cove Base Corner*	SCR3401 & SCL3401	SCR3401 & SCL3401	SCR3401 & SCL3401	SCR3401 & SCL3401	SCR3401 & SCL3401	SCR3401 & SCL3401

* See Color Wheel Classic product line.



APPLICATIONS

	Target DCOF wet	Suitable
Dry & Level – Interior Floor	N/A	
Wet & Level – Interior Floor	≥ 0.42	
Shower Floors (Residential or Light Commercial)	≥ 0.42	
Exterior Floor Applications (including patios, pool decking & other wet areas with minimal footwear)	≥ 0.60	
Ramps & Inclines	≥ 0.65	
Walls/Backsplashes	N/A	✓
Countertops	N/A	
Pool Linings	N/A	

A DCOF value of ≥ 0.42 is the standard for tiles specified for level interior spaces expected to be walked upon when wet, as stated in ANSI A137.1-2012, Section 9.6. For more information about DCOF and the DCOF AcuTest™, visit daltile.com/DCOF.

APPLICATION NOTES:


Suitable for exterior applications in non-freezing climates, when proper installation methods are followed.

PERFORMANCE CHARACTERISTICS

	ASTM#	Result
Water Absorption	C373	< 20.0%
Breaking Strength	C648	120-230 lbs
Scratch Hardness	MOHS	4.0-6.0
Chemical Resistance	C650	Resistant
Abrasion Resistance	C1027	N/A

For additional information on test results, visit us at: daltile.com/information/TestResults.

INSTALLATION

Grout Joint Recommendation	Shade Variation
<p>6 x 18 & 8 x 24: 1/16" (1/8" when rectangular size is installed in a staggered brick-joint pattern; overlap should not exceed 33%.)</p> <p>2 x 8, 4 x 12, & 4 x 16: 1/16" (When rectangular size is installed in a staggered brick joint pattern, overlap should not exceed 33%.)</p> <p>4 x 8: 1/16"</p>	 Low (V1)

NOTES

Since there are variations in all fired ceramic and natural products, tile and trim supplied for your particular installation may not match samples. Final confirmation should be made from actual tiles and trim prior to installation. Manufactured in accordance with ANSI A137.1 standards.

For additional information refer to "Factors to Consider" at: daltile.com/Factors.



POST-CONSUMER RECYCLED MATERIALS



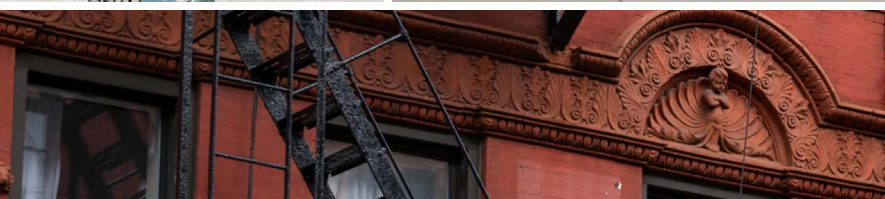
PRE-CONSUMER RECYCLED MATERIALS

All or select items within this series meet the requirements for these qualifications. For more information, visit daltile.com.

EAST VILLAGE HDP

High Definition Porcelain

COLOR BODY PORCELAIN FLOOR & WALL TILE



floridatile

EAST VILLAGE HDP

HDP
High Definition Porcelain

Florida Tile's East Village^{HDP} collection is true to its namesake NYC neighborhood. The creative hotbed of lower Manhattan is beloved for its patented grit and spirited grandeur. A melting pot of artists, actors, musicians, and more, it embodies a rich coming together of social, cultural, and architectural histories that ardently resist the norm. Synonymous with its iconic boutiques, lounges, bookstores, and cafes, East Village^{HDP} celebrates a freethinking aesthetic that pushes boundaries and never ceases to deliver authentic, head-turning style.

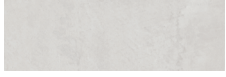
This color body porcelain field tile boasts a wide range of rectified formats – 3.75x12, 12x24, 24x24, 24x48 – complemented by a dramatic, oversized waterjet-cut hexagon measuring 22.5x22.5. Transient variations of tone in an artful, washed concrete look are found in each of the five colors: Avenue A Gray, E. Houston Warm Gray, Potter's Red Clay, Stuyvesant Charcoal, and Tompkins Blue/Black. Completing this inspired collection are a bullnose and 36-piece mosaic in each color and two unique, waterjet-cut, tri-colored, pieced hexagon mosaics in both a warm and cool mix.

Manufactured using proprietary HDP—High Definition Porcelain® printing technology, East Village^{HDP} is appropriate for most applications in both residential and commercial settings. It is made in the USA in our Green Squared® certified Advanced Manufacturing Center, located in Lawrenceburg, KY. It includes pre-consumer recycled content and is GREENGUARD® and Porcelain Tile certified. Incorporated into the tile surface is Microban® antimicrobial technology that works continuously to inhibit bacteria growth, improve visible cleanliness, and reduce odors.



shown on front: **EVG20 3.75x12** & **24x24** E. Houston Warm Gray
above: **EVG10 24x28** Avenue A Gray, **EVG30 12x24** Potter's Red Clay & **EVG123/M7x7HEX** Warm Mix Hexagon Mosaic

AVENUE A GRAY



EVG10 3.75x12
Avenue A Gray



EVG10 12x24
Avenue A Gray



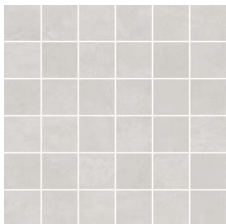
EVG10 24x24
Avenue A Gray



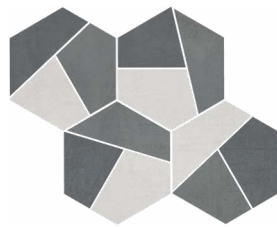
EVG10 24x48
Avenue A Gray



EVG10 22.5x22.5HEX
Avenue A Gray



EVG10/M122
Avenue A Gray 36pc Mosaic



EVG145/M7x7HEX
Cool Mix Hexagon Mosaic
(Avenue A Gray, Stuyvesant Charcoal
& Tompkins Blue/Black)



EVG123/M7x7HEX
Warm Mix Hexagon Mosaic
(Avenue A Gray, E. Houston Warm Gray
& Potter's Red Clay)



E. HOUSTON WARM GRAY



EVG20 3.75x12
E. Houston Warm Gray



EVG20 12x24
E. Houston Warm Gray



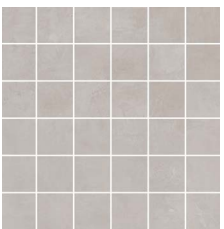
EVG20 24x24
E. Houston Warm Gray



EVG20 24x48
E. Houston Warm Gray



EVG20 22.5x22.5HEX
E. Houston Warm Gray



EVG20/M122
E. Houston Warm Gray 36pc Mosaic



EVG123/M7x7HEX
Warm Mix Hexagon Mosaic
(Avenue A Gray, E. Houston Warm Gray & Potter's Red Clay)





left: **EVG20 3.75x12 & 24x24** E. Houston Warm Gray
right: **EVG10 22.5x22.5HEX** Avenue A Gray, **EVG20 22.5x22.5HEX** E. Houston Warm Gray, **EVG30 22.5x22.5HEX** Potter's Red Clay & **EVG30 24x48** Potter's Red Clay

POTTER'S RED CLAY



EVG30 3.75x12
Potter's Red Clay



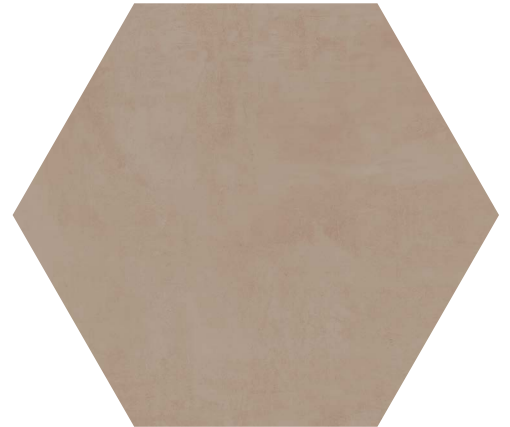
EVG30 12x24
Potter's Red Clay



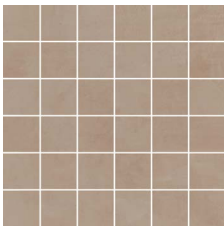
EVG30 24x24
Potter's Red Clay



EVG30 24x48
Potter's Red Clay



EVG30 22.5x22.5HEX
Potter's Red Clay

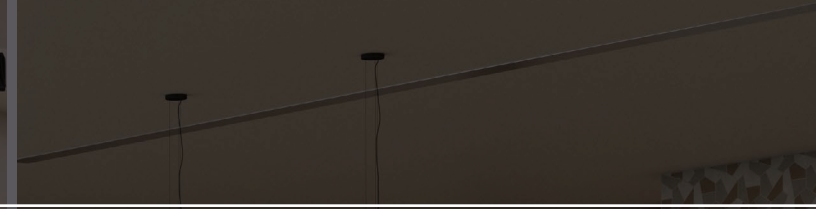


EVG30/M122
Potter's Red Clay 36pc Mosaic



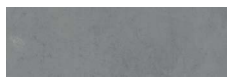
EVG123/M7x7HEX
Warm Mix Hexagon Mosaic
(Avenue A Gray, E. Houston Warm Gray & Potter's Red Clay)





left: **EVG10 22.5x22.5HEX** Avenue A Gray, **EVG20 22.5x22.5HEX** E. Houston Warm Gray, **EVG30 22.5x22.5HEX** Potter's Red Clay & **EVG30 24x48** Potter's Red Clay
right: **EVG10 24x28** Avenue A Gray, **EVG30 12x24** Potter's Red Clay & **EVG123/M7x7HEX** Warm Mix Hexagon Mosaic

STUYVESANT CHARCOAL



EVG40 3.75x12
Stuyvesant Charcoal



EVG40 12x24
Stuyvesant Charcoal



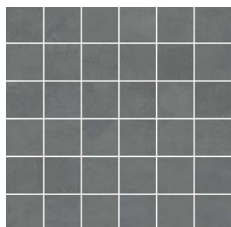
EVG40 24x24
Stuyvesant Charcoal



EVG40 24x48
Stuyvesant Charcoal



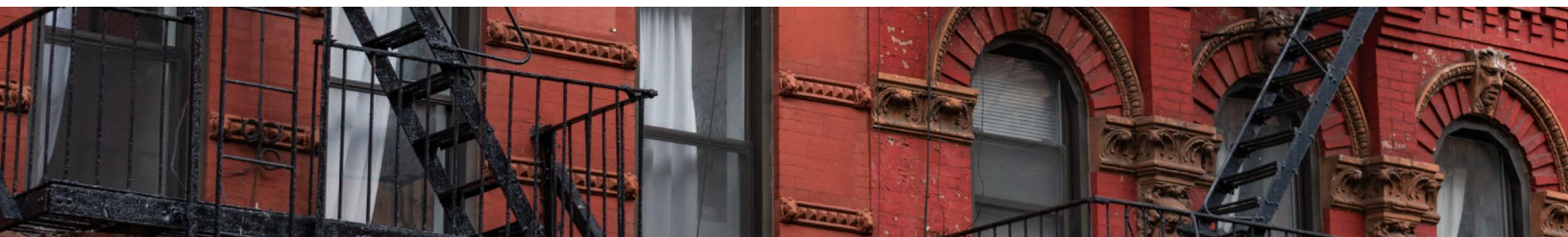
EVG40 22.5x22.5HEX
Stuyvesant Charcoal



EVG40/M122
Stuyvesant Charcoal 36pc Mosaic



EVG145/M7x7HEX
Cool Mix Hexagon Mosaic
(Avenue A Gray, Stuyvesant Charcoal & Tompkins Blue/Black)





left: **EVG10 22.5x22.5HEX** Avenue A Gray, **EVG40 22.5x22.5HEX** Stuyvesant Charcoal, **EVG50 22.5x22.5HEX** Tompkins Blue/Black, **EVG40 24x24** Stuyvesant Charcoal & **EVG50 12x24** Tompkins Blue/Black
 right: **EVG10 12x24** Avenue A Gray, **EVG40 3.75x12** Stuyvesant Charcoal & **EVG145/M7x7HEX** Cool Mix Hexagon Mosaic

TOMPKINS BLUE/BLACK



EVG50 3.75x12
Tompkins Blue/Black



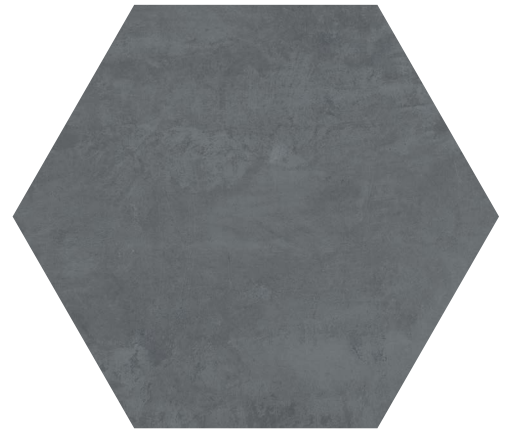
EVG50 12x24
Tompkins Blue/Black



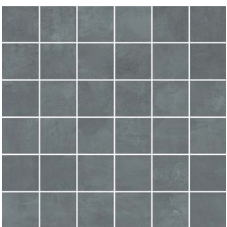
EVG50 24x24
Tompkins Blue/Black



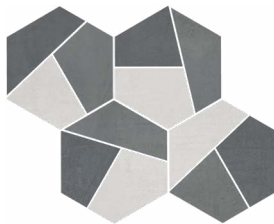
EVG50 24x48
Tompkins Blue/Black



EVG50 22.5x22.5HEX
Tompkins Blue/Black

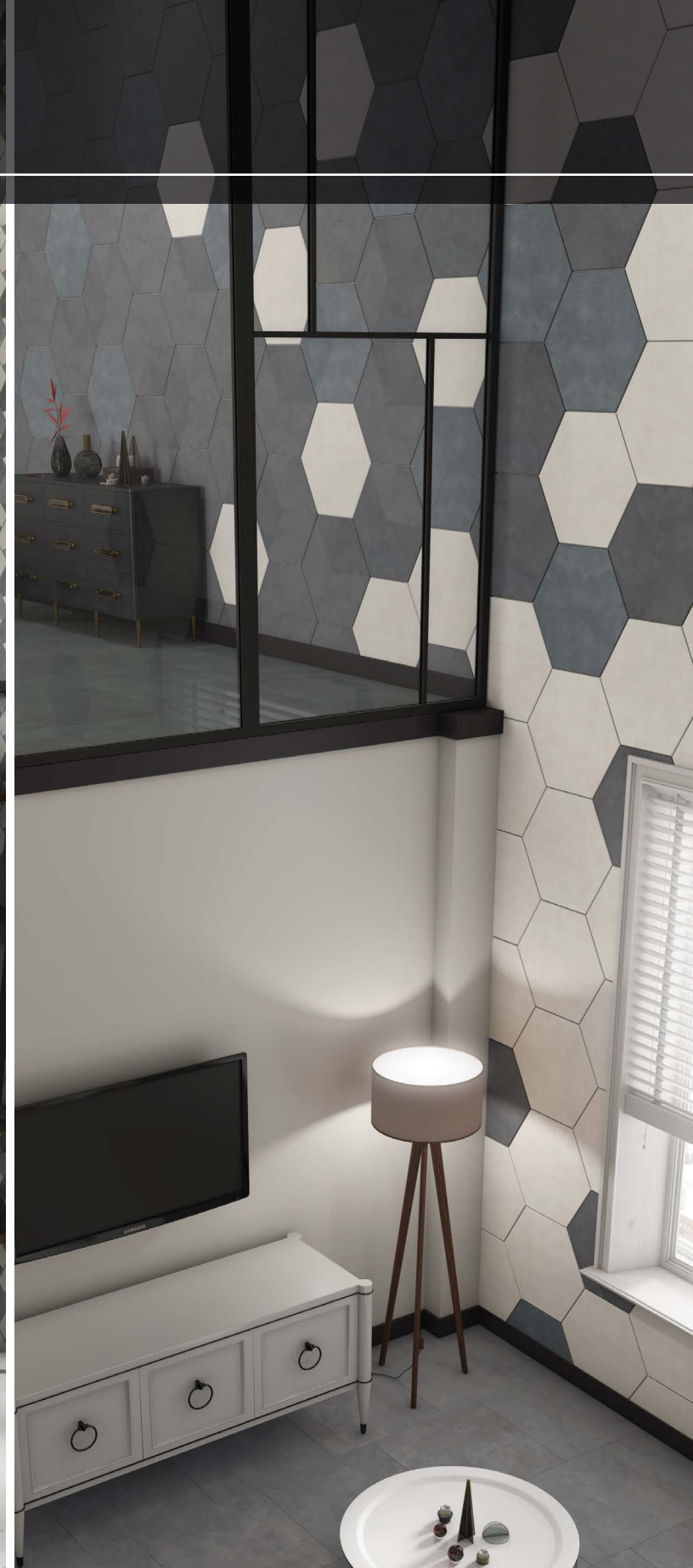


EVG50/M122
Tompkins Blue/Black 36pc Mosaic



EVG145/M7x7HEX
Cool Mix Hexagon Mosaic
(Avenue A Gray, Stuyvesant Charcoal & Tompkins Blue/Black)





left: **EVG10 12x24** Avenue A Gray & **EVG145/M7x7HEX** Cool Mix Hexagon Mosaic
 right: **EVG10 22.5x22.5HEX** Avenue A Gray, **EVG40 22.5x22.5HEX** Stuyvesant Charcoal, **EVG50 22.5x22.5HEX** Tompkins Blue/Black, **EVG40 24x24** Stuyvesant Charcoal
 & **EVG50 12x24** Tompkins Blue/Black

EAST VILLAGE HDP

High Definition Porcelain™



above: **EVG10 22.5x22.5HEX** Avenue A Gray, **EVG20 22.5x22.5HEX** E. Houston Warm Gray, **EVG30 22.5x22.5HEX** Potter's Red Clay, **EVG30 24x48** Potter's Red Clay & **EVG10 12x24** Avenue A Gray

Technical Specifications	Results ¹
ANSI® A326.3²	Interior, Wet (IW) Mosaic Interior, Wet Plus (IW+)
Surface Hardness	7 Mohs
Break Strength	≥ 410 lbf. avg.
Water Absorption	≤ 0.5% ³
Intended Use⁴	Residential, Light Commercial & Heavy Commercial

¹ Values are offered in good faith as being accurate and typical of normal production. Due to the natural variation of raw materials and manufacturing processes, the values of the purchased product for any particular installation may vary.

² For more information, visit floridatile.com/productuseclassifications.

³ Average production value.

⁴ Please visit www.floridatile.com/intended-use for further details.

Field Tile Nominal Size (in) ¹	Metric (cm)	Pcs./Sq Ft ²	Thickness ³	Edge
3.75x12	9.5x30	3.26	9mm	Rectified
12x24	30x60	.5	9mm	Rectified
24x24	60x60	.25	9mm	Rectified
24x48	60x120	.129	9mm	Rectified
22.5x22.5HEX	58x58	.38	9mm	Waterjet-Cut

¹ These values may vary from lot to lot.

² These values are based on actual sizes including the grout joint.

³ May not apply to textured surfaces or tiles with uneven back patterns such as mesh mounted mosaics.

Trim	Shape	SKU	Nominal Size (in) ¹	Metric (cm)
Bullnose		P43N9	3x24	7.5x60

¹ These values may vary from lot to lot.

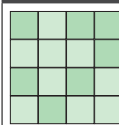
Typical Uses

East Village^{HDP} color body porcelain floor and wall tile is appropriate for most residential and commercial wall, countertop, backsplash, and floor applications.

Notice: Not all flooring products are suitable for wet areas, specialized applications, or commercial use. Please refer to the American National Standard Specifications for Ceramic Tile (ANSI® A137.1) for ceramic, stone, and glass installation for specific usage and installation information.

This Florida Tile product will contribute to USGBC LEED® points and the ANSI® approved NAHB® Green Building Points.

Color Variation



V2 Slight Variation

Color, texture, and finish variations may occur due to the nature of the product.

Notes:

Country of origin and other product features and characteristics are subject to change due to manufacturing efficiencies and other factors. See retailer or product packaging to verify country of origin and other product characteristics.

Color reproductions in this printed piece may vary from actual tile colors. Final selection should be made from actual tile samples.

Hexagon Mosaic Notice

Each M7x7Hex mosaic is sold (6) pieces to a carton in a mixed assortment of A, B, and C layouts. Total coverage per carton is 5.12 SQFT.



The striking colors of Passion™ will inspire breathtaking designs throughout any living space. This unique wall tile transcends traditional subway tiles into something ethereal. Colors ranging from soft White to delicate Rosa to deep Nero, Passion™ brings a truly magical element that will complement any decor.

PASSION™

*Glazed Porcelain***



FLOOR / WALL  RESIDENTIAL  COMMERCIAL  INDOOR  OUTDOOR  POOL 



Blanco



Crema



Rosa



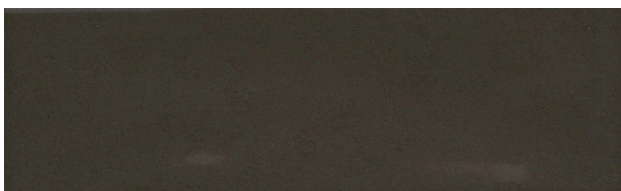
Gris



Azul



Verde






Nero

The coloration of Passion™ is anything but ordinary. Rated as a V3, this line provides a dramatic variation in color and shade making each installation truly unique.

Color Variation:



Sizes					
	3" x 8" 2.56" x 7.87"	9" x 9" Glossy & Matte	1/2" x 8" Jolly		
Thickness	10mm	10.5mm	13mm		
Grout Joint Recommendation	1/8"	1/8"			
Testing	Breaking Strength C ₆₄₈	Chemical Resistance C ₆₅₀	Water Absorption C ₃₇₃	Scratch Hardness MOHS	Shade Variation Rating
Results*	>250 lbf (3"x8") >350 lbf (9"x9")	Resistant (3"x8") Resistant (9"x9")	<1.0% (3"x8") <3.0% (9"x9")	7 (3"x8") 7 (9"x9" Matte) 6 (9"x9" Glossy)	V3 (3"x8") V3 (9"x9")

-  Sustainability Attributes
- Health Product Declaration (HPD) provided upon request
 - Product Packaging is 100% recyclable
 - VOC Free

*For more information visit www.emser.com. Always consult a professional for proper usage and installation.

**Frost Resistant Tile. This product is not classified as true porcelain as the water absorption falls within 0.5% - 3%. However, this product is able to be used almost anywhere porcelain tile is used.



Safety Data Sheet

MAPELASTIC AQUADEFENSE

Safety Data Sheet dated: 3/14/2017 - version 4

Date of first edition: 5/20/2015

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: MAPELASTIC AQUADEFENSE

Recommended use of the chemical and restrictions on use

Recommended use: Waterproofing and Crack-isolation Membrane

Restrictions on use: N.A.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

Aquatic Acute 3 Harmful to aquatic life.

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Label elements

Hazard statements:

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501.A Dispose of contents/container in accordance with applicable regulations.

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

This product contains titanium dioxide which IARC has classified as a Group 2B carcinogen (possibly carcinogenic to humans). Evidence is based on sufficient animal testing as a result of long-term inhalation at high concentrations of respirable amounts of titanium dioxide. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a dust hazard)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Quantity	Name	Ident. Numb.	Classification
0.25-0.49 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350; STOT RE 1, H372
0.25-0.49 %	Zinc oxide	CAS:1314-13-2	Aquatic Acute 1, H400; Aquatic Chronic 1, H410
0.1-0.25 %	Titanium dioxide	CAS:13463-67-7	Carc. 2, H351

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

N.A.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;
Zinc oxide	OSHA			5					
	OSHA			15					
	ACGIH			2		10			metal fume fever;
Titanium dioxide	OSHA			15					
	ACGIH			10					A4 - Not Classifiable as a Human Carcinogen;lower respiratory tract irritation;

Appropriate engineering controls: N.A.

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: Paste green

Odour: N.A.

Odour threshold: N.A.

pH: 9.00

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: >100 °C (212 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.30 g/cm³

Solubility in water: No data available

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

Other information

Substance groups relevant properties: N.A.

Miscibility: N.A.

Fat Solubility: N.A.

Conductivity: N.A.

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Data not Available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

Silica Sand	a) acute toxicity	LD50 Oral Rat = 500 mg/kg
Zinc oxide	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
Titanium dioxide	a) acute toxicity	LD50 Oral Rat > 10000 mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

Substance(s) listed on the IARC Monographs:

Silica Sand	Group 1
Titanium dioxide	Group 2B

Substance(s) listed as OSHA Carcinogen(s):

Silica Sand
Titanium dioxide

Substance(s) listed as NIOSH Carcinogen(s):

Silica Sand
Titanium dioxide

Substance(s) listed on the NTP report on Carcinogens:

Silica Sand

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
0.25-0.49 %	Silica Sand	CAS: 14808-60-7	a) Aquatic acute toxicity : LC50 carp > 10000,00000 mg/L 72h

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

14. TRANSPORT INFORMATION**UN number**

ADR-UN number: N/A

DOT-UN Number: N/A

IATA-Un number: N/A

IMDG-Un number: N/A

UN proper shipping name

ADR-Shipping Name: N/A

DOT-Proper Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

Transport hazard class(es)

ADR-Class: N/A

DOT-Hazard Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

Packing group

ADR-Packing Group: N/A

DOT-Packing group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

Environmental hazards

Marine pollutant: No

Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): N/A

DOT-Label(s): N/A

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR-Hazard identification number: N/A

ADR-Transport category (Tunnel restriction code): N/A

Air (IATA):

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subrisk: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Subrisk: N/A
IMDG-Special Provisions: N/A
IMDG-Page: N/A
IMDG-Label: N/A
IMDG-EMS: N/A
IMDG-MFAG: N/A

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

Silica Sand	is listed in TSCA	Section 8b
Zinc oxide	is listed in TSCA	Section 8b
Titanium dioxide	is listed in TSCA	Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

no substances listed

Section 304 - Hazardous substances:

no substances listed

Section 313 - Toxic chemical list:

Zinc oxide

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

no substances listed

CAA - Clean Air Act

CAA listed substances:

no substances listed

CWA - Clean Water Act

CWA listed substances:

no substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

Silica Sand	Listed as carcinogen
Titanium dioxide	Listed as carcinogen

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

Silica Sand
Zinc oxide
Titanium dioxide

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Silica Sand
Zinc oxide
Titanium dioxide

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

Silica Sand
Zinc oxide
Titanium dioxide

Canada - Federal regulations

DSL - Domestic Substances List

DSL Inventory:

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

NDSL Inventory:

no substances listed

NPRI - National Pollutant Release Inventory

Substances listed in NPRI:

no substances listed

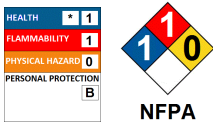
16. OTHER INFORMATION

Code	Description
H350	May cause cancer .
H351	Suspected of causing cancer .
H372	Causes damage to organs through prolonged or repeated exposure .
H400	Very toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet dated: 3/14/2017 - version 4

Product code: 2596

Additional classification information



HMIS Health: 1 = Slight

HMIS Health - Is health hazard chronic?: Yes

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 1 = Slight

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

*** Sheet model entirely changed in compliance to regulatory update.**



Ultracolor Plus FA

**Rapid-Setting, "All-in-One"
Grout Replacement for
Sanded and Unsanded Grouts**



DESCRIPTION

Ultracolor Plus FA with DropEffect™ technology is an ultra premium, fine-aggregate, fast-setting, polymer-modified, color-consistent, nonshrinking, efflorescence-free grout for joint widths from 1/16" to 3/4" (1.5 to 19 mm). DropEffect reduces surface absorption to help repel water, dirt and grime from penetrating grout joints. *Ultracolor Plus FA* is specially formulated with MAPEI's High-Hydrated Cement Technology (HCT™) to eliminate the common problems related to Portland-cement grout, such as color consistency and efflorescence. Along with offering higher polymer content, HCT reduces absorption and increases stain resistance when compared with standard-performance cement grouts. *Ultracolor Plus FA* is formulated with 10% recycled content and meets the ANSI A138.1 specification for Green Squared certification.

FEATURES AND BENEFITS

- Fine aggregate (FA) allows for narrow joint widths and improved cleanability.
- No efflorescence (free of Portland cement)
- Easy to install and stain-resistant
- No sealer required

INDUSTRY STANDARDS AND APPROVALS

- ISO 13007: Classification CG2WAF
- ANSI: Meets or exceeds A118.6 and A118.7 industry standards
- SCS Green Squared: Certified per ANSI A138.1

WHERE TO USE

- Commercial and residential construction suitable for both interior and exterior installations

- For grouting dimensional stone, slate, granite, stone agglomerates and most types of ceramic, ceramic mosaic, quarry, brick paver, porcelain, glass and clay tiles
- When installing in submerged jobsites (swimming pools, spas, water features and fountains), allow 72 hours of curing.
- For use where grout will be exposed to foot traffic within 3 to 4 hours
- For joint widths from 1/16" to 3/4" (1.5 to 19 mm)

LIMITATIONS

- Sealing is not required. However, a high-performance penetrating grout sealer may still be applied from MAPEI's *UltraCare*™ family of sealers, which includes Penetrating Plus Stone, Tile & Grout Sealer; and Penetrating Plus SB Stone & Porcelain Tile Sealer. Follow the directions provided in the *UltraCare* Maintenance Guide.
- Do not use when a highly chemical-, impact- and stain-resistant grout is required or in heavy industrial tile installations. Instead, use an appropriate MAPEI epoxy grout (see the respective Technical Data Sheet [TDS] for details).
- When grouting in temperatures above 80°F (26°C), see the technical bulletin "Installing tile in hot weather" at www.mapei.com or consult MAPEI's Technical Services Department.

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- Certain tiles with high absorption, surface porosity or rough surfaces may require sealing before grouting to prevent permanent staining.



- The application of a grout release over certain types of porcelain or textured surface tiles or stone may be advantageous where a fine surface porosity might trap fine particles or color pigments. Seek the advice of the tile or stone manufacturer and site-test (mock up) on separate samples before grouting.
- Caution: Some types of glass, glazed ceramic tiles, marble, granite and marble agglomerates can be permanently stained, scratched, dulled or damaged when grouted with pigmented grout or sanded grout formulas. Generally, lighter-shade grout is best suited for grouting white or light-colored marble or granite. Take all the necessary precautions to ensure that the marble, granite or tiles are compatible with colored grouts. Check the tile or marble manufacturer's literature and test grout on a separate sample area before grouting to determine the suitability of the product with colored and/or sanded grouts. A test sample can also confirm the desired color and texture of *Ultracolor Plus FA*.
- Grout joints must be clean and free of standing water, dust, dirt and foreign matter. Remove excess adhesive or mortar from the joint area so that 2/3 of the depth of the tile is left available for grouting.
- Remove all spacers, pegs, ropes and strings.
- Before grouting, make sure that the tiles or stones are firmly set and that the adhesive or mortar is completely dry.
- Clean the tile or stone surface thoroughly to remove dust, dirt and other contaminants that may cause grout discoloration.

See the "Surface preparation requirements" reference guide in the Related Documents section of the Tile & Stone Installation Systems page on MAPEI's Website.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

1. For best results, have the same person mix all of the grout. Consistent mixing techniques will promote more uniform results.
2. Before mixing the grout with water, dry-blend the product to avoid color variations in the finished grout, which may arise from pigment settling during shipment. If two or more bags are to be used, all of the contents should be dry-blended together.
3. Mix *Ultracolor Plus FA* with cool, clean water only. Do not mix with grout additives. Mix by using the following water-to-grout proportions:

<u>Ultracolor Plus FA powder</u>	<u>Water</u>
10 lbs. (4.54 kg)	1 to 1.1 U.S. qts. (0.95 to 1.04 L)
25 lbs. (11.3 kg)	2.6 to 2.8 U.S. qts. (2.46 to 2.65 L)

4. Pour the required measured amount of water into a clean mixing container. Gradually add the proportionate amount of *Ultracolor Plus FA* while slowly mixing. To avoid shade variation of the finished joint, always add the powder to the water while being consistent in the mixing process and the quantity of water used from batch to batch.

Note: When mixing 25-lb. (11.3-kg) bags, it might be necessary to mix partial bags. In this situation, a 3-to-1 ratio of powder to water can be mixed by volume. When using this ratio, keep in mind that it is a starting point: You might need to use slightly more or less powder or water in order to fine-tune the consistency of the mixture.

5. Mix thoroughly with a low-speed mixer (at about 350 rpm) for about 4 to 5 minutes, or until obtaining a smooth, creamy, homogenous paste consistency and a uniform shading of the colored grout.
6. Avoid prolonged mixing, which will trap air and shorten the pot life.
7. Wash tools immediately with fresh water.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Use only at temperatures between 50°F and 95°F (10°C and 35°C). With temperatures above 80°F (26°C), use cold water to mix the powder.
2. Using consistent application and cleaning procedures will produce consistent results.
3. To aid in spreading the grout, slightly moisten the tile or stone surface with a damp sponge just before application. Do not flood the tiles or allow water to stand in the ungrouted joint areas.
4. Spread *Ultracolor Plus FA* immediately into the joints with a rubber grout float. Make sure that all joints are well-compacted and free of voids and gaps.
5. Remove excess grout from the tile surface, moving the grout float diagonally to the joints while *Ultracolor Plus FA* is still fresh.
6. The grout surface should be flush with the tile edge.
7. Some stiffening may occur before all material is used (usually within about 1 hour at room temperature). If this occurs, simply remix but do not add more liquid.
8. Provide for expansion and control joints as specified per TCNA handbook method EJ171 or TTMAC Specification Guide 09300, Detail 301EJ.
9. For full and color-consistent grout joints, allow the grout to set for typically 15 to 30 minutes at 73°F (23°C) before cleaning. Time before cleaning depends on the temperature, humidity and absorption of the tile/stone. When highly absorptive tile such as nonvitreous wall tile is grouted, the grout requires less setting time (about 5 to 10 minutes) before initial cleaning.

10. Use two buckets of cleaning water: One for rinsing the majority of the grout residue from the grout sponge, and one for moistening the sponge in clean water.
11. Dip the sponge in a bucket of water and wring out the excess, so that the sponge does not drip water. Using very little pressure, pull the sponge diagonally across the grout joints to remove the excess grout from the tile surface. Also use the sponge to smooth the surface of the grout joint. Turn the sponge over and make another pass in an adjacent area. After using both sides, rinse the sponge in one bucket and wring out the excess water. Dip the sponge in the second bucket of water, wringing out the excess and continue the process.
12. Change the water in the buckets frequently to help limit the amount of haze that forms on the tile or stone surface.
13. To prevent discoloration and soft/powdery joints, avoid cleaning with excessive water.
14. To control color variations, buff the grouted surface with cheesecloth or a clean, dry cotton cloth when a haze is visible on the tile surface, usually 30 to 60 minutes after grouting. This should remove any remaining surface water or grout residue.
15. Wash tools immediately with fresh water.
16. Never use acid for cleaning marble, glazed tile or pigmented grout surfaces. If a persistent haze remains after normal cleaning, see the technical bulletin "How to remove grout haze" at www.mapei.com or consult MAPEI's Technical Services Department.

PROTECTION

- Provide for dry, heated storage on site and deliver materials at least 24 hours before tilework begins.
- For at least 3 days after completion, protect from rain and freezing, and do not immerse the installation in water.
- **Floors:** Keep the installation free from foot traffic for at least 3 hours after grouting.
- **Walls:** Protect the installation from impact, vibration and hammering on adjacent and opposite walls for 14 days after tile installation (see the TDS of the adhesive or setting system for details).
- Because temperature and humidity (during and after installation of tile) affect the final curing time of all cement-based materials, allow for extended periods of curing and protection when temperatures drop below 60°F (16°C) and/or when the relative humidity is higher than 70%.

MAINTENANCE

- Grout must be cured for at least 24 hours before regular cleaning.
- MAPEI grout products are produced to the highest quality of standards. To maintain a clean tile surface, use a neutral-pH cleaner for maintaining the floor, followed by a clean water rinse.

- Do not use harsh chemical cleaners to maintain the tile surface. Before proceeding with cleaning, consult the cleaner's manufacturer for compatibility, use and application instructions. Remove or rinse fatty acid residue from the grout surface to avoid potential grout deterioration caused by prolonged exposure.
- A high-performance penetrating grout sealer may still be applied from MAPEI's *UltraCare* family of sealers, which includes Penetrating Plus Stone, Tile & Grout Sealer; and Penetrating Plus SB Stone & Porcelain Tile Sealer. Follow the directions provided in the *UltraCare* Maintenance Guide.

GROUTING IN HOT WEATHER

When *Ultracolor Plus FA* is being installed in hot weather – between 80°F and 95°F (26°C and 35°C) – these procedures should be followed in order to accomplish the best results:

- Store grout bag(s) at room temperature for at least 24 hours before use.
- Use cold water for mixing.
- Set mixing bucket inside a cold-water bath.
- Pre-wet tiles with cold water to lower the tile temperature and provide more working time (which is crucial for exterior and/or dark tile designs).
- Grout in the morning or evening hours to avoid the hottest part of the day.
- Remove as much of the excess from the tile surface as possible for easier cleanup.
- Start the initial wash in 15 minutes or less.
- Use tenting when grouting exterior to minimize sun exposure.
- Do not retemper the grout by adding additional water.
- You can remix the grout if the grout begins to stiffen up in the bucket. No additional water added.

**Ultracolor[®]
Plus FA**

ISO 13007 Classification

Classification Code	Test Characteristics	Classification Requirement
CG2 (cementitious grout, improved)	Shrinkage	≤ 0.30% shrinkage in 28 days
W (reduced water absorption)	Water absorption	≤ 5 g after 4 hours
A (high abrasion resistance)	Abrasion resistance	≤ 1 000 mm ³
F (rapid-setting)	Compressive strength	≥ 2,175 psi (15 MPa) after 24 hours

ANSI Specification

Test Method	Specification Standard	Test Results
ANSI A118.7 – compression	3,000 psi (20.7 MPa) at 28 days	3,000 to 5,500 psi (20.7 to 37.9 MPa) at 28 days
ANSI A118.7 – shrinkage	< 0.20% at 27 days	< 0.20% at 27 days
ANSI A118.7 – tensile strength	500 psi (3.45 MPa) at 28 days	500 to 600 psi (3.45 to 4.14 MPa) at 28 days
ANSI A118.7 – water absorption	< 5% (50% relative humidity to immersion)	< 5% (50% relative humidity to immersion)
ANSI A118.7 – flexural strength	1,000 psi (6.90 MPa) at 28 days	1,000 to 1,400 psi (6.90 to 9.66 MPa) at 28 days

Shelf Life and Product Characteristics before mixing

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C) in a dry area
Physical state	Powder

Application Properties at 73°F (23°C) and 50% relative humidity

Mixing ratio	Per 10 lbs. (4.54 kg) of grout powder: 1 to 1.1 U.S. qts. (0.95 to 1.04 L) of water Per 25 lbs. (11.3 kg) of grout powder: 2.6 to 2.8 U.S. qts. (2.46 to 2.65 L) of water
VOCs (Rule #1168 of California's SCAQMD)	0 g per L
Pot life*	30 minutes to 1 hour
Application temperature range	50°F and 95°F (10°C and 35°C)
Curing time*	3 days

* Pot life and curing time vary based on jobsite conditions, including cold temperatures or high humidity.

Packaging

Size
Bag: 10 lbs. (4.54 kg)
Bag: 25 lbs. (11.3 kg)

Approximate Coverage* in sq. ft. (m²) per 10 lbs. (4.54 kg)

Tile Size	Grout Joint Width							
	1/16" (1.5 mm)	1/8" (3 mm)	3/16" (4.5 mm)	1/4" (6 mm)	3/8" (10 mm)	1/2" (12 mm)	5/8" (16 mm)	3/4" (19 mm)
1" x 1" x 1/4" (25 x 25 x 6 mm)	39 (3.62)	20 (1.86)	13 (1.21)	10 (0.93)	7 (0.65)	5 (0.46)	4 (0.37)	4 (0.37)
2" x 2" x 1/4" (50 x 50 x 6 mm)	78 (7.25)	39 (3.62)	26 (2.42)	20 (1.86)	13 (1.21)	10 (0.93)	8 (0.74)	7 (0.65)
3" x 3" x 1/4" (75 x 75 x 6 mm)	117 (10.9)	59 (5.48)	39 (3.62)	30 (2.79)	20 (1.86)	15 (1.39)	12 (1.11)	10 (0.93)
4" x 8" x 1/2" (100 x 200 x 12 mm)	104 (9.66)	52 (4.83)	35 (3.25)	26 (2.42)	18 (1.67)	13 (1.21)	11 (1.02)	9 (0.84)
4-1/4" x 4-1/4" x 1/4" (108 x 108 x 6 mm)	165 (15.3)	83 (7.71)	55 (5.11)	42 (3.90)	28 (2.60)	21 (1.95)	17 (1.58)	14 (1.30)
6" x 6" x 1/4" (150 x 150 x 6 mm)	233 (21.6)	117 (10.9)	78 (7.25)	59 (5.48)	39 (3.62)	30 (2.79)	24 (2.23)	20 (1.86)
6" x 6" x 1/2" (150 x 150 x 12 mm)	117 (10.9)	59 (5.48)	39 (3.62)	30 (2.79)	20 (1.86)	15 (1.39)	12 (1.11)	10 (0.93)
6" x 24" x 3/8" (150 x 610 x 10 mm)	249 (23.1)	125 (11.6)	83 (7.71)	63 (5.85)	42 (3.90)	32 (2.97)	25 (2.32)	21 (1.95)
8" x 8" x 3/8" (200 x 200 x 10 mm)	207 (19.2)	104 (9.66)	69 (6.41)	52 (4.83)	35 (3.25)	26 (2.42)	21 (1.95)	18 (1.67)
12" x 12" x 3/8" (300 x 300 x 10 mm)	311 (28.9)	156 (14.5)	104 (9.66)	78 (7.25)	52 (4.83)	39 (3.62)	32 (2.97)	26 (2.42)
12" x 24" x 3/8" (300 x 600 x 10 mm)	414 (38.5)	207 (19.2)	138 (12.8)	104 (9.66)	69 (6.41)	52 (4.83)	42 (3.90)	35 (3.25)
13" x 13" x 3/8" (330 x 330 x 10 mm)	337 (31.3)	169 (15.7)	113 (10.5)	85 (7.90)	57 (5.30)	43 (3.99)	34 (3.16)	29 (2.69)
18" x 18" x 3/8" (457 x 457 x 10 mm)	466 (43.3)	233 (21.6)	156 (14.5)	117 (10.9)	78 (7.25)	59 (5.48)	47 (4.37)	39 (3.62)
20" x 20" x 3/8" (508 x 508 x 10 mm)	518 (48.1)	259 (24.1)	173 (16.1)	130 (12.1)	87 (8.08)	65 (6.04)	52 (4.83)	44 (4.09)
24" x 24" x 3/8" (610 x 610 x 10 mm)	621 (57.7)	311 (28.9)	207 (19.2)	156 (14.5)	104 (9.66)	78 (7.25)	63 (5.85)	52 (4.83)
32" x 32" x 3/8" (812 x 812 x 10 mm)	828 (76.9)	414 (38.5)	276 (25.6)	207 (19.2)	138 (12.8)	104 (9.66)	83 (7.71)	69 (6.41)

Approximate Coverage* in sq. ft. (m²) per 25 lbs. (11.3 kg)

Tile Size	Grout Joint Width							
	1/16" (1.5 mm)	1/8" (3 mm)	3/16" (4.5 mm)	1/4" (6 mm)	3/8" (10 mm)	1/2" (12 mm)	5/8" (16 mm)	3/4" (19 mm)
1" x 1" x 1/4" (25 x 25 x 6 mm)	97 (9.01)	49 (4.55)	33 (3.07)	25 (2.32)	17 (1.58)	13 (1.21)	10 (0.93)	9 (0.84)
2" x 2" x 1/4" (50 x 50 x 6 mm)	194 (18.0)	97 (9.01)	65 (6.04)	49 (4.55)	33 (3.07)	25 (2.32)	20 (1.86)	17 (1.58)
3" x 3" x 1/4" (75 x 75 x 6 mm)	291 (27.0)	146 (13.6)	97 (9.01)	73 (6.78)	49 (4.55)	37 (3.44)	30 (2.79)	25 (2.32)
4" x 8" x 1/2" (100 x 200 x 12 mm)	259 (24.1)	130 (12.1)	87 (8.08)	65 (6.04)	44 (4.09)	33 (3.07)	26 (2.42)	22 (2.04)
4-1/4" x 4-1/4" x 1/4" (108 x 108 x 6 mm)	413 (38.4)	207 (19.2)	138 (12.8)	104 (9.66)	69 (6.41)	52 (4.83)	42 (3.90)	35 (3.25)
6" x 6" x 1/4" (150 x 150 x 6 mm)	582 (54.1)	291 (27.0)	194 (18.0)	146 (13.6)	97 (9.01)	73 (6.78)	59 (5.48)	49 (4.55)
6" x 6" x 1/2" (150 x 150 x 12 mm)	291 (27.0)	146 (13.6)	97 (9.01)	73 (6.78)	49 (4.55)	37 (3.44)	30 (2.79)	25 (2.32)
6" x 24" x 3/8" (150 x 610 x 10 mm)	621 (57.7)	311 (28.9)	207 (19.2)	156 (14.5)	104 (9.66)	78 (7.25)	63 (5.85)	52 (4.83)
8" x 8" x 3/8" (200 x 200 x 10 mm)	518 (48.1)	259 (24.1)	173 (16.1)	130 (12.1)	87 (8.08)	65 (6.04)	52 (4.83)	44 (4.09)

**Ultracolor
Plus FA**

Ultracolor Plus FA



12" x 12" x 3/8" (300 x 300 x 10 mm)	776 (72.1)	388 (36.0)	259 (24.1)	194 (18.0)	130 (12.1)	97 (9.01)	78 (7.25)	65 (6.04)
12" x 24" x 3/8" (300 x 600 x 10 mm)	1,035 (96.2)	518 (48.1)	345 (32.1)	259 (24.1)	173 (16.1)	130 (12.1)	104 (9.66)	87 (8.08)
13" x 13" x 3/8" (330 x 330 x 10 mm)	841 (78.1)	421 (39.1)	281 (26.1)	211 (19.6)	141 (13.1)	106 (9.85)	85 (7.90)	71 (6.60)
18" x 18" x 3/8" (457 x 457 x 10 mm)	1,164 (108)	582 (54.1)	388 (36.0)	291 (27.0)	194 (18.0)	146 (13.6)	117 (10.9)	97 (9.01)
20" x 20" x 3/8" (508 x 508 x 10 mm)	1,294 (120)	647 (60.1)	432 (40.1)	324 (30.1)	216 (20.1)	162 (15.1)	130 (12.1)	108 (10.0)
24" x 24" x 3/8" (610 x 610 x 10 mm)	1,552 (144)	776 (72.1)	518 (48.1)	388 (36.0)	259 (24.1)	194 (18.0)	156 (14.5)	130 (12.1)
32" x 32" x 3/8" (812 x 812 x 10 mm)	2,069 (192)	1,035 (96.2)	690 (64.1)	518 (48.1)	345 (32.1)	259 (24.1)	207 (19.2)	173 (16.1)

* Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to actual tile size and thickness, exact joint width, job conditions and grouting methods. Consult MAPEI's Technical Services Department or use the grout calculator at www.mapei.com to determine the amount of product needed for project criteria not shown.

RELATED DOCUMENTS

Technical bulletin: "How to remove grout haze"***

Technical bulletin: "Installing tile in hot weather"***

Reference guide: "Tiling and grouting instructions"***

Brochure: "Grout troubleshooting guide"***

** At www.mapei.com

Refer to the SDS for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI meets the health and well-being requirements of product certification programs, contact the MAPEI Sustainability Team at 1-800-992-6273.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at

www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use,

and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

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For the most current BEST-BACKED™ product data and warranty information, visit www.mapei.com.

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Ultraflex[®] LHT

Professional Large-and-Heavy-Tile Mortar with Polymer



DESCRIPTION

Ultraflex LHT is a non-sag, large-and-heavy-tile mortar and thin-set mortar for large-format and heavy tile and stone for interior/exterior installations on floors, walls and countertops. *Ultraflex LHT* is designed for use at 1/2" (12 mm) thickness to give better support under large-format tile. This polymer-modified mortar is formulated with Easy Glide Technology™ for ease of application with excellent adhesion to the substrate and tile.

FEATURES AND BENEFITS

- Polymer-enriched for high performance
- Non-sag formula for large-format and heavy tile and stone in wall applications
- Nonslump for large-format and heavy tile and stone in floor applications. For bond coats up to 1/2" (12 mm) in embedded thickness.
- Smooth and creamy consistency makes it easy to apply.
- Approved for use with plywood

INDUSTRY STANDARDS AND APPROVALS

- ISO 13007: Classification C2TE
- ANSI: Exceeds ANSI A118.4HTE and A118.11 requirements

WHERE TO USE

- Most interior/exterior residential installations on floors, walls and countertops in dry and wet areas (see wall specifications under "Limitations")
- Most interior/exterior commercial installations on floors and countertops
- Most interior commercial installations on walls

- Installation of ceramic and porcelain tile, cultured stone, quarry tile, pavers, Saltillo tile, and most types of marble, granite and natural stone

LIMITATIONS

- Install only at temperatures between 40°F and 95°F (4°C and 35°C).
- Do not use for moisture-sensitive stone (green marble; some limestone and granite), agglomerate tiles, cultured marble or resin-backed tiles. Instead, use suitable epoxy or urethane adhesives. See the respective Technical Data Sheets for more information.
- Do not use over dimensionally unstable substrates such as hardwood flooring, oriented strand board (OSB), substrates containing asbestos, or metal. See the "Suitable Substrates" section below.
- To use directly over gypsum-based patching or leveling substrates, apply a suitable sealer/primer before use.
- For light-colored and translucent natural stone, a white mortar is recommended.
- Installations of tile over nonporous surfaces, such as waterproofing membranes and existing tile, may require extended setting/curing times. Dimensionally weak stone (limestone and travertine) is limited to thin-set applications only.
- Do not use for installations subject to water immersion, such as pools and spas.
- Not recommended for areas subject to severe freeze/ thaw conditions. For the best performance, use a MAPEI liquid latex additive mortar system.



SUITABLE SUBSTRATES

- Concrete (cured at least 28 days)
- Masonry cement block, brick, cement mortar beds, render coats and leveling coats
- Cement backer units (CBUs) – see the manufacturer’s installation guidelines
- Gypsum wallboard and plaster – interior walls in dry areas only. Priming may be required. See the “Surface preparation requirements” reference guide in the Tile & Stone Installation Systems section of MAPEI’s Website.
- Plywood underlayment must be a Group 1 exterior-grade plywood CC-plugged or better, conforming to APA classification and U.S. Product Standard PS 1-95 or a “SELECT” or (SEL-TF) CANPLY classified exterior-grade plywood conforming to CSA-0121 standard for Douglas fir for direct-bond applications (interior, residential and light commercial floors and countertops in dry conditions only).
- Vinyl composition tile (VCT) and cutback residue (interior installations only)
- Existing ceramic and porcelain tile, quarry tile and pavers (interior applications in dry conditions only)
- MAPEI waterproofing, crack-isolation, sound-reduction and uncoupling membranes

Contact MAPEI’s Technical Services Department for installation recommendations concerning substrates or conditions not listed.

SURFACE PREPARATION

- All substrates should be structurally sound, stable, dry, clean, and free of any substance or condition that may reduce or prevent proper adhesion.
- See the “Surface preparation requirements” reference guide in the Tile & Stone Installation Systems section of MAPEI’s Website.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

1. Pour clean water into a clean mixing container. For non-sag/nonslump applications, use about 6.5 to 7.5 U.S. qts. (6.15 to 7.10 L) of water. For MAPEI uncoupling and peel-and-stick membranes, use about 7.5 to 8 U.S. qts. (7.10 to 7.57 L) of water.
2. Gradually add 50 lbs. (22.7 kg) of powder while slowly mixing.
3. Use a low-speed mixing drill (at about 300 rpm), with an angled cross-blade mixer or spiral mixer. Mix thoroughly until the mixture becomes a smooth, homogenous, lump-free paste. Avoid prolonged mixing.
4. Let the mixture stand (“slake”) for 5 minutes.
5. Remix.
6. If the mixture becomes heavy or stiff, remix it without adding more liquid.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Choose a notched trowel (see the “Approximate Coverage” chart below) with sufficient depth to achieve more than 80% mortar contact to both the tile and substrate for all interior applications, and more than 95% for exterior, commercial floor and wet applications. It may be necessary to back-butter the tile in order to meet these requirements. (Refer to ANSI A108.5 specifications and TCNA handbook guidelines.)
2. With pressure, apply a coat of mortar by using the trowel’s flat side to key the mortar into the substrate.
3. Apply additional mortar, combing it in a single direction parallel to the tile’s shortest dimension, with the trowel’s notched side. Spread only as much mortar as can be tiled before the product skins over. Open time can vary with jobsite conditions.
4. Place tiles firmly into the wet mortar. Push the tiles back and forth in a direction perpendicular to trowel lines, to collapse the mortar ridges and to help achieve maximum coverage. Ensure proper contact between the mortar, tile and substrate by periodically lifting a few tiles to check for acceptable coverage.
5. Remove excess mortar from the joint areas so that at least 2/3 of the tile depth is available for grouting (see ANSI A108.10 guidelines).

EXPANSION AND CONTROL JOINTS

- Provide for expansion and control joints as specified per TCNA Method EJ171 or TTMAC Specification Guide 09 30 00, Detail MJ301. Do not cover expansion joints with mortar.

CLEANUP

- Clean tools and tile while the mortar is fresh, using only water.

PROTECTION

- Do not disturb the installation, allow light traffic or grout any tiles for at least 24 to 48 hours.
- Protect the installation from general traffic for at least 72 hours, and from heavy traffic for at least 7 days.
- Protect the installation from rain for 72 hours, and from freezing for 21 days.

ISO 13007 Classification

Classification Code	Classification Requirement	Test Characteristic
C2 (cementitious, improved adhesive)	≥ 145 psi (1 MPa) after standard aging, heat aging, water immersion and freeze/thaw cycles	Using porcelain tile
T (vertical slip resistance)	≤ 0.019" (0.5 mm)	Using porcelain tile
E (extended open time)	≥ 72.5 psi (0.5 MPa) after 30 minutes	Using glazed ceramic wall tile

ANSI Specification

Test Method	Specification Standard	Test Results
ANSI A118.4 – shear strength, impervious ceramic (porcelain) mosaics	> 200 psi (1.38 MPa) at 28 days	225 to 350 psi (1.55 to 2.41 MPa)
ANSI A118.4 – shear strength, glazed wall tile	> 300 psi (2.07 MPa) at 7 days	400 to 550 psi (2.76 to 3.79 MPa)
ANSI A118.4 – shear strength, quarry tile to quarry tile	> 150 psi (1.03 MPa) at 28 days	300 to 425 psi (2.07 to 2.93 MPa)
ANSI A118.4E – extended open time	≥ 72.5 psi (0.5 MPa) at 30 minutes	Pass
ANSI A118.4H – mortar for large and heavy tile	ASTM C627 Robinson Floor Test lippage change < 1/64" (0.4 mm)	Pass
ANSI A118.4T – sag on vertical surfaces	< 0.02" (0.5 mm) at 20 minutes	Pass
ANSI A118.11 – shear strength, quarry tile to plywood	> 150 psi (1.03 MPa) at 28 days	150 to 175 psi (1.03 to 1.21 MPa)

Shelf Life and Product Characteristics before mixing

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Colors	Gray, white

Application Properties at 73°F (23°C) and 50% relative humidity

Open time*	30 minutes
Pot life*	> 2 hours
Time before grouting walls*	8 to 16 hours
Time before grouting floors*	24 hours
VOCs (Rule #1168 of California's SCAQMD)	0 g per L
Application temperature range	40°F to 95°F (4°C to 35°C)
Embedded thickness range	3/32" to 1/2" (2.5 to 12 mm)

* Cold temperature or high humidity may alter these properties.

Packaging

Size and Color
Bag: 50 lbs. (22.7 kg), gray
Bag: 50 lbs. (22.7 kg), white

Ultraflex LHT



Approximate Coverage* per 50 lbs. (22,7 kg)

Typical Trowel		Coverage
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm)		75 to 90 sq. ft. (6.97 to 8.36 m ²)
1/4" x 3/8" x 1/4" (6 x 10 x 6 mm)		55 to 65 sq. ft. (5.11 to 6.04 m ²)
1/2" x 1/2" x 1/2" (12 x 12 x 12 mm)		38 to 45 sq. ft. (3.53 to 4.18 m ²)
3/4" x 9/16" x 3/8" (19 x 14 x 10 mm)		25 to 30 sq. ft. (2.32 to 2.79 m ²)

* Trowel dimensions are width/depth/space. Actual coverage will vary according to substrate profile and tile type.

Refer to the SDS for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

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Before using, the user must determine the suitability of our products for the intended use,

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