



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: 096813 Dwg No: _____
 Paragraph: _____ Other: _____

Description: Tile Carpeting Product data

Supplier: John Herbert

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=tyler@piazza.com, OU=Piazza, Inc., O=Piazza, Inc., CN=Piazza, Inc.
 Date: 2023.03.15 15:04:38-04'00'
 Date: 06/27/2023



X 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: 07/16/2023
 By: ASchmidt

Submittal



142 ROUTE 17K – P.O. BOX 2758
NEWBURGH NY 12550
TEL: (845) 564-3000
FAX: (845) 564-6824

Job: Dutchess Stadium
Left Field Clubhouse

Spec Section No:

Submittal No: 1

Spec Section Title:

Revision No:

Submittal Title:

Sent Date:

Contractor: Piazza Brothers, Inc.

Copies	Date	No.	Description
1			Adex Feather Finish Underlayment
1			Interface "Vive Colores" Carpet Tile Colors: 106051 Gris Pizarra, & 101141 Azul Marino.
1			Interface 2000 Grid Set Pressure Sensitive Adhesive
1			Interface "Step Repeat SR799 Carpet Tile Color: 104934 Smoke
1			Interface "Natural Woodgrains" 9.85"x 39.38" LVT Colors: A00202, Madagascar & A00206 Winter Grey.
1			Plae "Achieve" 4'x 5' 8mm Rubber Flooring Color: 905 Charcoal
1			Nora "Norament Grano" Rubber Tile Color: 5320 Sassafras
1			Nora 1.5 Gal PU MR95 Two Part Polyurethane Adhesive
1			Tarkett "Drop Turf" 15'x Custom Length Color: TBD
1			Nora Cove Base Color: TBD
1			Nora Stair Nosing T5049 E/F, Smooth, Color: TBD

Remarks:

Signed:

ARDEX FEATHER FINISH®

Self-Drying, Cement-Based Finish Underlayment

Description and Usage

ARDEX FEATHER FINISH® is an underlayment formulated from a blend of Portland cement and other hydraulic cements that provides a smooth, permanent finish for a variety of substrates prior to the installation of today's demanding floor coverings, including sheet vinyl and VCT (vinyl composition tile). ARDEX FEATHER FINISH allows the installation of most types of floor covering in as little as 15 minutes over all types of interior concrete, masonry, wood, terrazzo, and ceramic and quarry tile - as well as properly prepared residues of cutback and other non-water-soluble adhesives on concrete - all without the need for priming or the use of a latex additive.

ARDEX FEATHER FINISH mixes with water only to a creamy, smooth consistency, for easy application. Engineered around a self-drying matrix, all of the mix water is chemically combined within the product itself. Using this unique technology, flooring installation problems associated with disbonding, crumbling, mold, mildew and staining are eliminated, thus preserving the floor manufacturer's full product warranty.

ARDEX FEATHER FINISH also may be used as an embossing filler when mixed with ARDEX P 82™ ULTRA PRIME. Please read the instructions under "Embossing Filler."

Substrate Preparation

For all of the substrates listed below, acid etching, adhesive removers, solvents and sweeping compounds are not acceptable means for cleaning the substrate. Substrate and ambient temperatures must be a minimum of 50°F (10°C) for the installation of ARDEX products. For more detailed information on substrate preparation, please refer to the ARDEX Substrate Preparation Brochure at www.ardexamericas.com.

CONCRETE: All concrete substrates must be solid, thoroughly clean and free of oil, wax, grease, asphalt, latex and gypsum compounds, curing compounds**, sealers and any contaminant that might act as a bond breaker. If necessary, mechanically clean the floor down to sound, solid concrete by shot blasting, grinding or similar. Over-watered, frozen or otherwise weak concrete surfaces must also be cleaned down to sound, solid concrete by mechanical methods. Acid etching, adhesive removers, solvents and sweeping compounds are not acceptable means for cleaning the substrate. Sanding equipment is not an effective method to remove curing and sealing compounds.

****NOTES ON CURING COMPOUNDS:** Test areas of ARDEX FEATHER FINISH can be installed and evaluated over concrete slabs that have been treated with either silicate or acrylic resin curing compounds. These compounds must be installed in strict accordance with the compound manufacturer's written recommendations. If a silicate type has been used, all residual salts must be removed. For instructions on priming concrete with acceptable curing compounds, please refer to the Priming section of this brochure.

Please be advised, however, that there are a number of curing compounds sold today that are wax- or petroleum-based emulsions. These are permanent bond breakers that must be removed completely prior to patching or leveling. Dissipating compounds must also be removed completely by mechanical means prior to installing any ARDEX material.

It is imperative to be able to determine the type of curing compound that was used before proceeding. Any curing compound that cannot be identified should be completely, mechanically removed.

ADHESIVE RESIDUES ON CONCRETE: ARDEX FEATHER FINISH also can be installed over non-water-soluble adhesive residue on concrete only. The adhesive must first be tested to make certain it is not water-soluble. Water-soluble adhesives must be removed mechanically down to clean concrete. The existing adhesive also must be tested to verify that it does not interact with the new flooring adhesive, and the new flooring must be tested to ensure it is not susceptible to bleed through of the existing adhesive. If adhesive interaction and/or migration are a concern, install an ARDEX self-leveling material such as ARDEX K 15® Premium Self-Leveling Underlayment.

Non-water-soluble adhesives should be prepared to a thin, well-bonded residue using the wet-scraping technique as recommended by the Resilient Floor Covering Institute (www.rfci.com) to remove thick areas and adhesive build-up, as well as any areas that are weak or not well bonded to the concrete. Any existing patches below the adhesive must be removed completely.

OTHER NON-POROUS SUBSTRATES: ARDEX FEATHER FINISH also can be applied over other clean, sound and solidly bonded non-porous substrates, including terrazzo, burnished concrete, epoxy coating systems, and ceramic and quarry tile. The substrate must be clean, including the complete removal of existing waxes and sealers, dust, dirt, debris and any other contaminant that may act as a bond breaker. Substrate preparation must be by mechanical means, such as shot blasting.

GYPSUM: ARDEX FEATHER FINISH can be installed over gypsum underlayments that are sound, solid, well bonded and properly primed. For instructions on priming gypsum underlayments, please refer to the Priming section below. The gypsum must be thoroughly clean and free of dirt, debris, sealers and any contaminant that might act as a bond breaker. If necessary, mechanically clean the floor down to sound, solid gypsum by shot blasting, grinding or similar.

Please be advised, however, that the fact remains that the substrate is gypsum, and therefore has inherent weakness. ARDEX FEATHER FINISH will provide a solid surface to which new flooring can bond, but cannot change the fact that a weak substrate lies below.

The wood subfloor must be constructed according to prevailing building codes and must be solid and securely fixed to provide a rigid base free of undue flex. Any boards exhibiting movement must be re-nailed. The surface of the wood must be clean and free of oil, grease, wax, dirt, varnish, shellac and any contaminant that might act as a bond breaker. If necessary, sand down to bare wood. A commercial drum sander can be used to sand large areas. Do not use solvents, strippers or cleaners. Vacuum all dust and debris. It is the responsibility of the installation contractor to ensure that the wood subfloor is thoroughly clean and properly anchored prior to the installation of any ARDEX material.

Some flooring manufacturers recommend a finish-grade wood underlayment be installed over the existing wood subfloor. If necessary, ARDEX FEATHER FINISH can be used to smooth fasteners and/or joints in the wood underlayment. Please note that the wood underlayment must be suitable for the installation of the specific floor covering and must be installed in accordance with the wood underlayment manufacturer's recommendations.

METAL: Metal substrates must be rigid, well supported, properly anchored, and free of undue flex and vibration. They must also be clean, including the complete mechanical removal of rust, corrosion and any contaminant that may act as a bond breaker. It is the responsibility of the installation contractor to ensure that this is so. To prevent rust from recurring, steel surfaces must be coated with an anticorrosive epoxy coating and allowed to dry thoroughly. The coating must be installed in strict accordance with the coating manufacturer's written recommendations and allowed to cure fully. Lead, copper and aluminum do not need to be coated with an anticorrosive coating.

NOTE ON ASBESTOS-CONTAINING MATERIALS: Please note that when removing existing flooring, any asbestos-containing materials should be handled and disposed of in accordance with applicable federal, state and local regulations.

For all of the above cases, acid etching, adhesive removers, solvents and sweeping compounds are not acceptable means for cleaning the substrate. Substrate and ambient temperatures must be a minimum of 50°F (10°C) for the installation of ARDEX products. For more detailed information on substrate preparation, please refer to the ARDEX Substrate Preparation Brochure at www.ardexamericas.com.

Recommended Tools

ARDEX T-2 Ring Mixing Paddle, mixing bucket, margin trowel, steel trowel, razor scraper, and a 1/2" (12 mm) heavy-duty drill (min. 650 rpm).

Priming

NOTE: ARDEX primers may require longer drying time with low surface temperatures and/or high ambient humidity. Do not install ARDEX FEATHER FINISH before the primer has dried thoroughly.

GYPSON: If the substrate is a gypsum underlayment that will not be removed, double priming of the gypsum is necessary to consolidate what may be a dusty surface prior to installing ARDEX FEATHER FINISH. Make an initial application of ARDEX P 51™ PRIMER mixed with 3 parts water, and apply using a soft push broom. Do not leave any bare spots. Remove all puddles and excess primer. Allow thorough drying such that the film of primer does not re-emulsify in water (approximately 1 to 3 hours) before proceeding with the second application of ARDEX P 51 diluted 1:1 with water. Allow thorough drying to a clear, thin film (min. 3 hours, max. 24 hours).

NON-POROUS SUBSTRATES: ARDEX FEATHER FINISH will bond to some non-porous substrates, such as burnished concrete, terrazzo, and ceramic and quarry tile, without the use of a primer. Other non-porous substrates, such as epoxy coating systems and concrete treated with silicate compounds, must be primed with ARDEX P 82 ULTRA PRIME. Follow the mixing instructions on the container, and apply with a short-nap or sponge paint roller, leaving a thin coat of primer. Do not leave any bare spots. Brush off puddles and excess primer. ARDEX P 82 should be applied within 1 hour of mixing. Allow primer to dry to a thin, slightly tacky film (min. 3 hours, max. 24 hours).

NOTE: If an approved acrylic curing compound is used, test the surface for porosity. If the concrete is porous, no primer is needed. If it is non-porous, prime with ARDEX P 82.

METAL: Prime the prepared metal with ARDEX P 82 ULTRA PRIME. Follow the mixing instructions on the container, and apply with a short-nap or sponge paint roller, leaving a thin coat of primer. Do not leave any bare spots. Brush off puddles and excess primer. ARDEX P 82 should be applied within 1 hour of mixing. Allow primer to dry to a thin, slightly tacky film (min. 3 hours, max. 24 hours).

Joins and Cracks

Under no circumstances should ARDEX FEATHER FINISH be installed over any moving joints or moving cracks. All existing expansion joints, isolation joints and construction joints, as well as all moving cracks, must be honored up through the underlayment and flooring.

Please be advised that while dormant control joints and dormant cracks in the slab may be filled with a trowel-grade material such as ARDEX FEATHER FINISH prior to installing finish flooring, this filling is not intended to act as a repair method that will eliminate the possibility of joints and cracks telegraphing. ARDEX FEATHER FINISH is a non-structural material and is, therefore, unable to restrain movement within a concrete slab. This means that while some dormant joints and dormant cracks may not telegraph up into the finish flooring, cracks will telegraph in any area that exhibits movement, such as an active crack, an expansion or isolation joint, or an area where dissimilar substrates meet. We know of no method to prevent this telegraphing from occurring.

Mixing and Application

For one 10 lb. (4.5 kg) bag of ARDEX FEATHER FINISH, use 2 1/2 quarts (2.4 L) of clean water. Pour the water in the mixing container first, and then add the ARDEX FEATHER FINISH. For best results, mix with an ARDEX T-2 Ring Mixing Paddle and a 1/2" (12 mm) heavy-duty drill (min. 650 rpm). Mechanical mixing will produce a creamier, smoother consistency without the need for additional water. **DO NOT OVERWATER!** Additional water will weaken the compound and lower its strength. To mix smaller quantities by hand, use 2 parts of powder to 1 part of water by volume. Use a margin trowel and mix vigorously for 2 to 3 minutes. Just prior to application on the substrate, the mixture should be stirred again to ensure a creamy, smooth, lump-free consistency. The pot life of ARDEX FEATHER FINISH is approximately 15-20 minutes at 70°F (21°C). If stiffening or surface skinning occurs within this time, remix before using. **Do not add more water.**

After mixing, apply the ARDEX FEATHER FINISH to the substrate with the flat side of a steel trowel to obtain a solid mechanical bond before applying the desired thickness. Apply sufficient pressure to fill all defects and to feather the product onto the subfloor surface.

EMBOSSING FILLER: Existing felt-backed embossed residential sheet vinyl must be clean and free of any waxes or other dressings. The flooring must be solidly bonded, must be installed over a suitable substrate, and must not show any signs of moisture, mold, mildew or alkaline salts. Do not use embossing filler over cushioned-backed flooring that is thicker than 0.080", or over perimeter-bonded flooring.

To use ARDEX FEATHER FINISH as an embossing filler, mix one part of ARDEX P 82 Part A with one part of ARDEX P 82 Part B by volume and blend to a uniform consistency. Add two parts of ARDEX FEATHER FINISH by volume and mix as above.

For example, mix 1 cup (8 oz.) of ARDEX P 82 Part A with 1 cup of ARDEX P 82 Part B. Blend this to a uniform color and consistency, and then add 2 cups (16 oz.) of ARDEX FEATHER FINISH. For best results, mix the embossing filler with an ARDEX T-2 Ring Mixing Paddle and 1/2" heavy-duty drill to a creamy consistency, or use a margin trowel and mix vigorously for 2 to 3 minutes. Apply the filler to the prepared residential sheet vinyl with the flat side of a trowel in the thinnest possible layer to fill in the existing pattern. (Coverage of above mix is approx. 50 sq. ft., depending upon the depth of the embossing pattern.) If additional filling or smoothing is required after the pattern is filled, use ARDEX FEATHER FINISH mixed with water only.

The embossing filler blend will typically require 90 minutes of drying time prior to the installation of the new residential sheet vinyl. The surface is ready when a twist of a shoe does not affect the bond of the embossing filler. When dried, the surface of the filled vinyl is considered a non-porous substrate, and the adhesive should be selected accordingly.

Thickness of Application

ARDEX FEATHER FINISH can be installed from a true featheredge up to 1/2 in. (12.7 mm) over large areas. It can also be installed up to any thickness in small, well-defined areas, such as thresholds and birdbaths, as well as for height transitions. There is no minimum thickness requirement for this product. Use the least amount possible to attain the desired smoothness. The thickness of the application should be calculated based on the surface profile of the substrate and the specified tolerances of the floor covering.

Wear Surface

ARDEX FEATHER FINISH is not to be used as a permanent wear surface, even if coated or sealed. ARDEX FEATHER FINISH must be covered by a suitable floor covering material such as carpet, vinyl flooring, ceramic tile, etc. For resurfacing and leveling indoor concrete floors in warehouses, storage areas, hallways or other areas where a wear surface is required, use ARDEX SD-M™ DESIGNER FLOOR FINISH™.

Installation of Flooring

As soon as the ARDEX FEATHER FINISH can be worked on without damaging the surface (15-20 minutes), standard floor coverings such as ceramic tile, VCT, sheet vinyl and carpeting can be installed. If installing wood flooring, or, if high-performance adhesives will be used, such as epoxies or urethanes, please note that the ARDEX FEATHER FINISH must first be allowed to cure for 16 hours. All flooring adhesives that are compatible with concrete are compatible with ARDEX FEATHER FINISH®.

Drying time is a function of jobsite temperature and humidity conditions, as well as the installation thickness. Low substrate temperatures and/or high ambient humidity will extend the drying time. Adequate ventilation and heat will aid drying.

It is important to note that many different types of adhesives are used to install floor coverings, and their absorbency into cementitious substrates can vary significantly. If it is found that the adhesive being used is drying more quickly over the ARDEX FEATHER FINISH than over adjacent concrete, we recommend that the surface of the underlayment be primed with ARDEX P 51 PRIMER diluted 1:3 with water. Allow the primer to dry thoroughly (1 to 3 hours), and proceed with the installation of the adhesive. The use of the primer will even out the open time of the adhesive without affecting the bond or the long-term performance.

Notes

FOR PROFESSIONAL USE ONLY.

When mixed and installed in accordance with our recommendations, an installation of ARDEX FEATHER FINISH® with finish flooring is suitable for castor wheels in accordance with EN 12 529. Please note that it must be verified that the finish flooring and the adhesive are suitable for the specific castor wheel traffic.

ARDEX FEATHER FINISH® is approved to be used on concrete with RH Levels up to 99%. There should be no moisture sources other than the excess water in the concrete itself. Hydrostatic pressure, plumbing leaks, flood factors and other sources of water infiltration must be identified and corrected prior to installation. For installations on- or below-grade, an effective and intact vapor retarder must be directly below the concrete in conformance with ASTM E1745. As ARDEX underlayments allow for the free passage of concrete moisture into the flooring assembly, the moisture conditions must be within the limitations of the intended finish surface materials. In other words, if the RH is 99%, and the adhesive or the finish flooring is only suitable for use at up to 95%, moisture mitigation would be required. Verify concrete surface dryness by mat testing in conformance with ASTM D4263.

This product is intended for interior use over dry substrates only. Do not use in areas of constant water exposure or in areas exposed to permanent or intermittent substrate moisture, as this may jeopardize the performance of the underlayment and the floor covering. This product is not a vapor barrier, and will allow free passage of moisture. **Follow the directives of the floor covering manufacturer regarding the maximum allowable substrate moisture content and test the substrate prior to installing ARDEX FEATHER FINISH.** Where substrate moisture exceeds the maximum allowed, ARDEX recommends the use of ARDEX Moisture Control Systems. For further information, please refer to the ARDEX Technical Brochures.

Always install an adequate number of properly located test areas, including the finish flooring, to determine the suitability of the products for the intended use. As floor coverings vary, always contact and rely upon the floor covering manufacturer for specific directives, such as maximum allowable moisture content, adhesive selection and intended end use of the product.

Never mix with cement or additives other than ARDEX-approved products. Observe the basic rules of concrete work. Do not install below 50°F (10°C) surface and air temperatures. Install quickly if the substrate is warm, and follow warm weather instructions available from the ARDEX Technical Service Department.

To preserve its freshness, ARDEX FEATHER FINISH must be protected from air while not in use. Protect unused material by removing the air from the bag and sealing tightly. Open and reseal as necessary.

Precautions

Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Material Safety Data Sheet (MSDS) available at www.ardexamericas.com.

Technical Data According to ARDEX Quality Standards

All data based on a mixing ratio of 2 parts powder to 1 part water by volume at 70°F (21°C). Physical properties are typical values and not specifications.

Mixing Ratio:	2 1/2 quarts (2.4 L) of water per 10 lb. (4.5 kg) bag For smaller batches, use 2 parts powder to 1 part water by volume
* Coverage:	16.7 sq. ft. per bag at 1/4" (1.5 sq. m at 6 mm) 33.3 sq. ft. per bag at 1/8" (3.09 sq. m at 3 mm) 100-300 sq. ft. (9.2-27.8 sq. m) per bag at a skim coat Coverage will vary depending on the texture of the surface being smoothed.
Install Flooring:	15-20 minutes at 70°F (21°C)
VOC:	0
EN 12 529:	Suitable for castor wheels with finish flooring.
Packaging:	10 lb. (4.5 kg) net weight bag
Storage:	Store in a cool, dry area. Do not leave bags exposed to sun. Protect unused material by removing air from bag and sealing tightly.
Shelf Life:	9 months, if unopened
Warranty:	ARDEX Engineered Cements Standard Limited Warranty applies. Also eligible for the ARDEX/HENRY SystemOne™ Warranty when used in conjunction with select HENRY® Flooring Adhesives.

IMPORTANT TECHNICAL UPDATES

Technical update effective 2018-04-27:
ARDEX Underlayments and Non-Porous Substrates

[CLICK HERE](#)

Technical update effective 2019-07-16:
ARDEX Underlayments and 99% RH

[CLICK HERE](#)

Made in the USA.

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Revised 09-03-2019. Published Insert date of publication in 09-06-2019. Supersedes all previous versions. Check www.ardexamericas.com for most recent version and for technical updates, which may supersede the information herein.

Visit www.youtube.com/ARDEX101 to watch ARDEX Americas product videos.

For easy-to-use ARDEX Product Calculators and Product Information On the Go, download the ARDEX App at the iTunes Store or Google Play.



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Printed on 100% post-consumer waste (PCW) fiber manufactured using wind power.

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CM # IF500616 09/2022

Viva Colores



 **CLIMATE TAKE BACK™**
Climate change is undeniable. And reversible. Our mission is to prove it. Join the #ClimateTakeBack and help create a climate fit for life.

Interface®

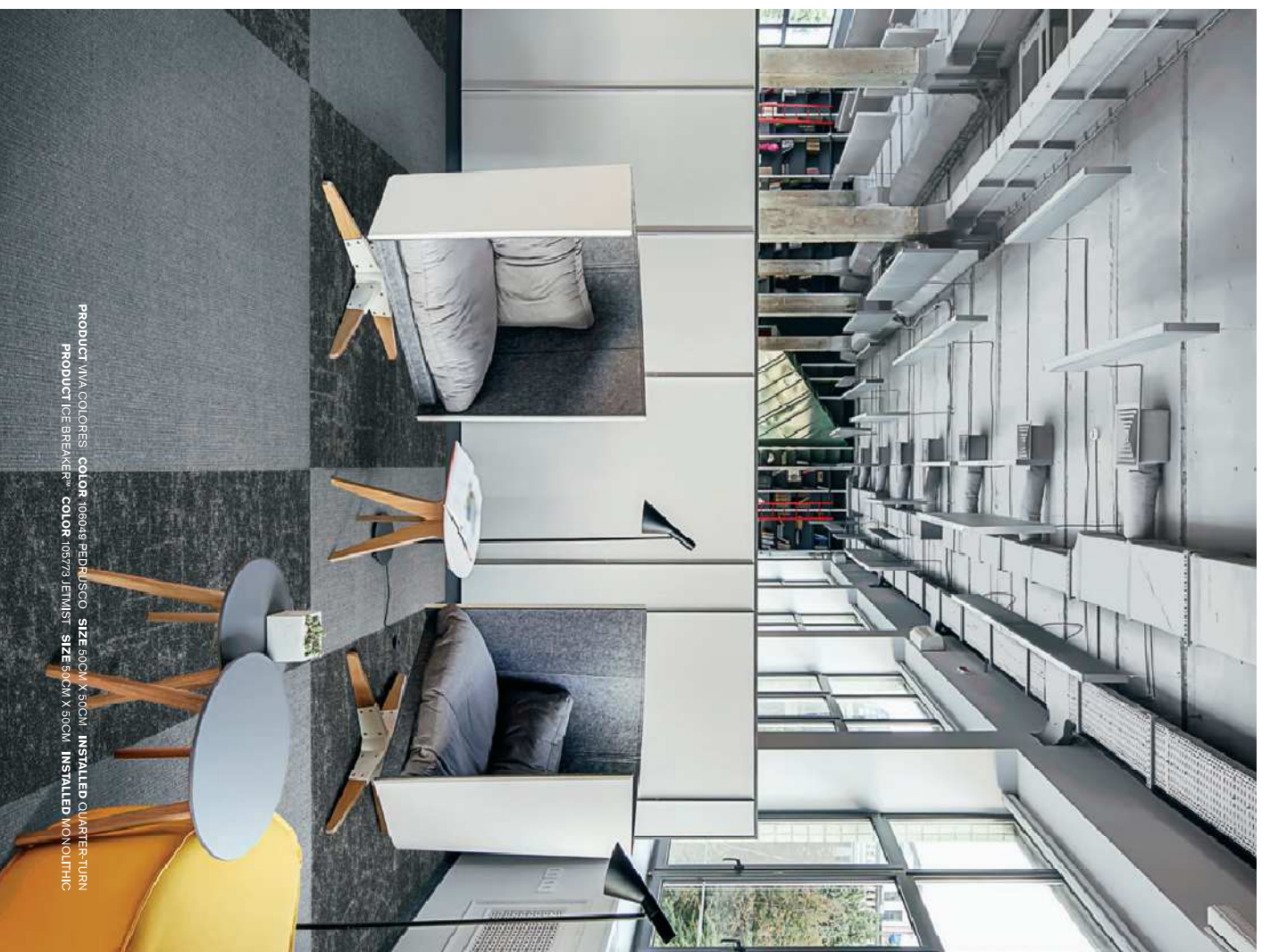
Viva Colores™

Viva Colores is suitable as a solid backdrop or a colorful accent that coordinates with our other Interface styles. Color comes alive in this solid, textured loop style available in colors ranging from neutrals to brights.

As part of our Carbon Neutral Floors™ program, when you specify Interface flooring, you're on the path to a more sustainable space. You're choosing to reduce the carbon footprint of your space and help improve the health of the planet.

[Interface.com](https://www.interface.com)

(COVER) **PRODUCT** VIVA COLORES **COLOR** 1011770 GRIS
SIZE 630CM X 900CM **INSTALLED** QUARTER-TURN



PRODUCT VIVA COLORES **COLOR** 108049 PEDRAUSCO **SIZE** 500CM X 90CM **INSTALLED** QUARTER-TURN
PRODUCT ICE BREAKER™ **COLOR** 105773 JETMIST **SIZE** 500CM X 90CM **INSTALLED** MONOLITHIC

Viva Colores™ Colorline

101177 MARRÓN	101211 BAZO	10124 AMARILLO	10125 VERDE BOTELLA	10126 VERDE PRIMAVERA	10152 VIOLETA	10154 GRANA	10155 ESCARLATA	10156 ROSADO	10157 BURDEOS
10128 CAQUI	10129 PANTANO	10130 ACETUNADO	10131 SALVIA	10133 BERILIO	10158 CANELA	10159 COLOR TEJA	10160 ROJO	10152 MANDARINA	10164 NARANJA
10134 JERBE	10135 ESMERALDA	10137 VERDE JADE	10138 AZUL VERDOSO	10139 TURQUESA	10165 CAFÉ	10167 CASTAÑO	10169 MARENGO	10170 GRIS	10171 CANO
10141 AZUL MARINO	10142 LAGUNA	10143 CERÚLEO	10144 TORMENTOSO	10145 ARANDANO	10173 PARDO	10174 GRIS PARDO	10177 OSCURO	10178 CARBÓN	10179 GRIS PERLA
10146 ZAFIRO	10147 AZUL	10148 CELESTE	10149 MORADO	10151 AMATISTA	10180 PLATEADO	106027 LIME	106028 MUSGO	106029 EUCAUPTO	106030 MAR TURQUESA

Viva Colores™ Colorline (cont'd)

	106031 AGUA		106032 CIRUELA		106033 LILA		106034 UVA		106035 LAVANDA
	106036 CORAL		106037 DURAZNO		106038 COBRE		106039 RUBOR		106040 CANARIO
	106041 AZAFRAN		106042 MIEL		106043 VAINILLA		106045 CHOCOLATE		106046 CAFE TOSTADO
	106047 CENIZO		106048 OSTRA		106049 PEDRUSCO		106050 QUARZO		106051 GRIS PIZZARRA

Specifications

Modular, 50cm x 50cm	14850
Modular, 25cm x 1m	14850
Yarn Manufacturer	Universal
Yarn System	Post-Consumer Content/Nylon
Color System	100% Solution Dyed
Construction	Tufted Textured Loop
Reservative Protection	Protect
Stain/Spill Protection	0.101 in., 26 mm
Pile Thickness	6.416 in., 164 mm
Pile Density	Up to 25% ¹
Tufted/Resilient Content	CRI Green Label Plus #GLP0890
Indoor Air Quality	

[View the full product specification on nrlf.com](#)

Installation Methods



Grid Set Green Adhesive 2000 Plus

Acrylic resilient flooring adhesive • Meets CA 01350 Requirements • CRI™ Green Label Plus Approved

Manufactured by an ISO 14001:2004 EMS Certified Company

Grid Set Green Adhesive 2000 Plus is an acrylic adhesive with extremely aggressive tack, formulated to provide high shear and peel strength for installing Interface's luxury vinyl tile (LVT), vinyl plank (LVP) and modular carpet tiles. **Grid Set Green Adhesive 2000 Plus** forms a secure plasticizer and moisture resistant bond. This high solids adhesive is non-staining and contains InterSept™ antimicrobial system for enhanced resistance to mold and mildew and to protect the adhesive from bacterial and fungal growth. **Grid Set Green Adhesive 2000 Plus** is CRI™ Green Label Plus approved by The Carpet and Rug Institute for Indoor Air Quality.

BEFORE YOU BEGIN:

Important: Proper substrate preparations are essential. Moisture testing must be performed and documented before installation begins. Read XL Brands Technical Bulletin titled Substrate Preparation for complete instructions before beginning installation. This document may be found at www.xlbrands.com/resources/technical-bulletins/substrate-preparations. If you have questions, contact XL Brands Technical Department at 706-508-5907 Mon-Fri, 8:00am - 5:00pm EST before you begin.

SUBSTRATE CONDITIONS:

Use on concrete substrates with up to 90% RH for flooring installed on or above grade (per current ASTM F2170), and pH of 8.0–10.0.

USAGE:

Follow Interface's installation instructions and proper adhesive application rate. All substrate preparation and testing procedures must conform to appropriate ASTM F710 guidelines, and comply with Interface's specifications.

NOTE: It is up to the end user to determine the coverage that is appropriate for flooring and jobsite conditions. Bond testing prior to the installation will help identify the appropriate application rate, open and working time, and any potential bonding problems to the substrate or flooring. Follow the Interface installation instructions and guidelines regarding adhesive application rate and method.

Installing Carpet Tile:

Spread the adhesive with a 1/16" x 1/32" x 1/32" U notched trowel, or roller for direct bonding to concrete, and allow to dry completely before placing tiles for a releasable installation. Drying time is approximately 30 minutes, depending on ambient humidity and temperature. Roll the installation in both directions with a 75-100 lbs. 3-section roller immediately after the installation is complete.

Installing Carpet Tile for a Double-Bond Application:

Spread the adhesive onto the substrate using a 1/16" x 1/16" x 1/16" square notch trowel and allow drying before placement of the cushion underlayment. After the placement of the cushion underlayment apply adhesive on top of the cushion using a 1/16" x 1/32" x 1/32" U notch trowel allowing the adhesive to completely dry before placing the carpet tiles allowing for a releasable bond/installation. Roll the installed carpet tiles in both directions using a 75-100lb 3-section roller. Cushions used for this type of installation are **non-porous and are not breathable**; use a **dry-lay installation method ONLY** for this system.

INSTALLING LVP & LVT OVER POROUS SUBSTRATES:

• When installing luxury vinyl plank and tile over a porous substrate use a 1/16" x 1/32" x 1/32" U-notch trowel. The adhesive should be allowed to dry to the touch sufficient to prevent slippage. Loss of adhesion can result if the flooring is not installed within the working time of the adhesive. Roll the installation in both directions with a 75-100 lbs. 3-section roller immediately after the installation is complete.

INSTALLING LVP & LVT OVER NON-POROUS SUBSTRATES:

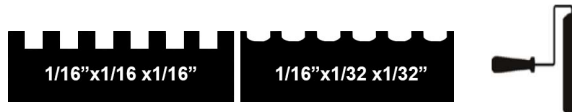
• When installing luxury vinyl tile and plank flooring over a non-porous substrate use a 1/16" x 1/32" x 1/32" U-notch trowel. The adhesive should be allowed to dry to the touch. This will normally require 30–60 minutes of drying time at suggested installation temperature and humidity. Do not install flooring into wet adhesive on non-porous substrates. Roll the installation in both directions with a 75-100 lbs. 3-section roller immediately after flooring is placed, ensuring complete contact with adhesive.

COVERAGE:

1/16" x 1/16" x 1/16" Square-notch trowel-160-180 square feet per gallon.

1/16" x 1/32" x 1/32" U-notch trowel-220-260 square feet per gallon.

3/8" short nap paint roller- 350 – 400 square feet per gallon



TRAFFIC:

Follow Interface's installation guidelines; otherwise restrict foot traffic for 24 hours after installation. No heavy traffic, rolling loads, or furniture placement for 72 hours after installation. Additional time may be necessary if the installation is over a non-porous substrate. Allow at least five days following the installation before conducting wet cleaning procedures or initial maintenance.

CLEAN UP:

Use a clean wet cloth to clean up adhesive while still wet. Dried adhesive may require the use of an appropriate solvent.

LIMITATIONS:

Do not allow product to freeze. Do not use on substrates that have been chemically cleaned or over treated plywood. Do not install over asphalt-based (cutback) adhesive residues.

SHELF LIFE:

Two years from date of manufacture, in unopened, properly stored container. Store indoors at a temperature between 65-95°F.

LEED v4 Credits (where applicable):

- IEQ Credit 2.1, 2.2
- MR Credit 4.1, 4.2

VOC content is below that established by California SCAQMD Rule 1168.

Complies with CA Section 01350 for Indoor Air Quality.

Disclaimer: The information and statements herein are believed to be reliable, but are not to be construed as a warranty or representation for which the manufacturer assumes legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or product referred to herein. No warranty of fitness for a particular purpose is made. 04.20.2017



Printed on 100% post-consumer waste (PCW) fiber manufactured using wind power.

interface.com

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1280 West Peachtree Street NW
Atlanta, GA 30309
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Canadian Headquarters
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Montes Urales # 415 Piso 6
Lomas de Chapultepec
Miguel Hidalgo, CDMX
11000 Mexico
+ 52.55.2791.6812

CIM# IFS00696 11/2022

Step Repeat Collection


- SR699
- SR799
- SR899
- SR999



Climate change is undeniable. And reversible. Our mission is to prove it. Join the #ClimateTakeBack and help create a climate fit for life.

Interface

Step Repeat™ Collection



Entryway carpet is like insurance for your floor. Installing carpet designed specifically for entryways 8 to 10 feet in from each entrance will simplify maintenance and add years to the rest of your floor covering.

The Step Repeat Collection offers four coordinating styles designed to make the most of your entryways and other high traffic areas. From the simple lines of SR699 to the larger scale pattern of SR999, each style features innovative, stiff fibers that grab dirt, moisture and debris, trapping it until it can be vacuumed up later. So interiors stay fresher and your carpet lasts longer. Step Repeat is available in eight earthy, neutrals.

Like all flooring you specify from Interface, Step Repeat carpet tiles are carbon neutral across their full product life cycle through our third party verified Carbon Neutral Floors™ program.

[Interface.com](https://www.interface.com)

(COVER) **PRODUCT** SR699 **COLOR** 104992 IRON **INSTALLED** QUARTER-TURN
PRODUCT SR899 **COLOR** 104941 ONYX **INSTALLED** MONDLITHIC

PRODUCT SR799 **COLOR** 104937 ONYX **INSTALLED** QUARTER-TURN
COLLECTION EQUAL MEASURE™ **PRODUCT** EM551 **COLOR** 104864 UNION ST. **INSTALLED** ASHLAR



Step Repeat™ vs Typical Entry Carpet Tile

	Interface's Step Repeat	Typical Entry Carpet Tile
Installation Method	Non-Directional Option	Monolithic or Quarter-Turn only
Radiant Panel (Class 1)	Passes	Fails
Soil Retention	4 lbs	1.8 lbs
Yarn System	Nylon	Polypropylene
Preservative Protection	Intersept®	None
Soil/Stain Protection	Protect®	None
Classification	Severe	Moderate
Warranty	15 years	1-3 years

SR799 Colorline



104934 SMOKE



104935 GRANITE



104936 IRON



104937 ONYX



104916 KHAKI



104916 SABLE



104917 DARK BROWN



104918 MIDNIGHT

Specifications

Modular	25cm x 1m	13985	Aqualit
Yarn Manufacturer			
Yarn System			100% Recycled Content Nylon
Color System			100% Solution Dyed
Construction			Tufted Textured Loop
Preservative Protection			Intersept [®]
Soil/Stain Protection			Prottek [™]
Pile Thickness	0.4in., 36mm		
Pile Density	6,686 oz./yd ²		
Total Recycled Content	Up to 80%		
Indoor Air Quality	CRI Green Label Plus #QLP0820		

View the full product specification on interfacem.com

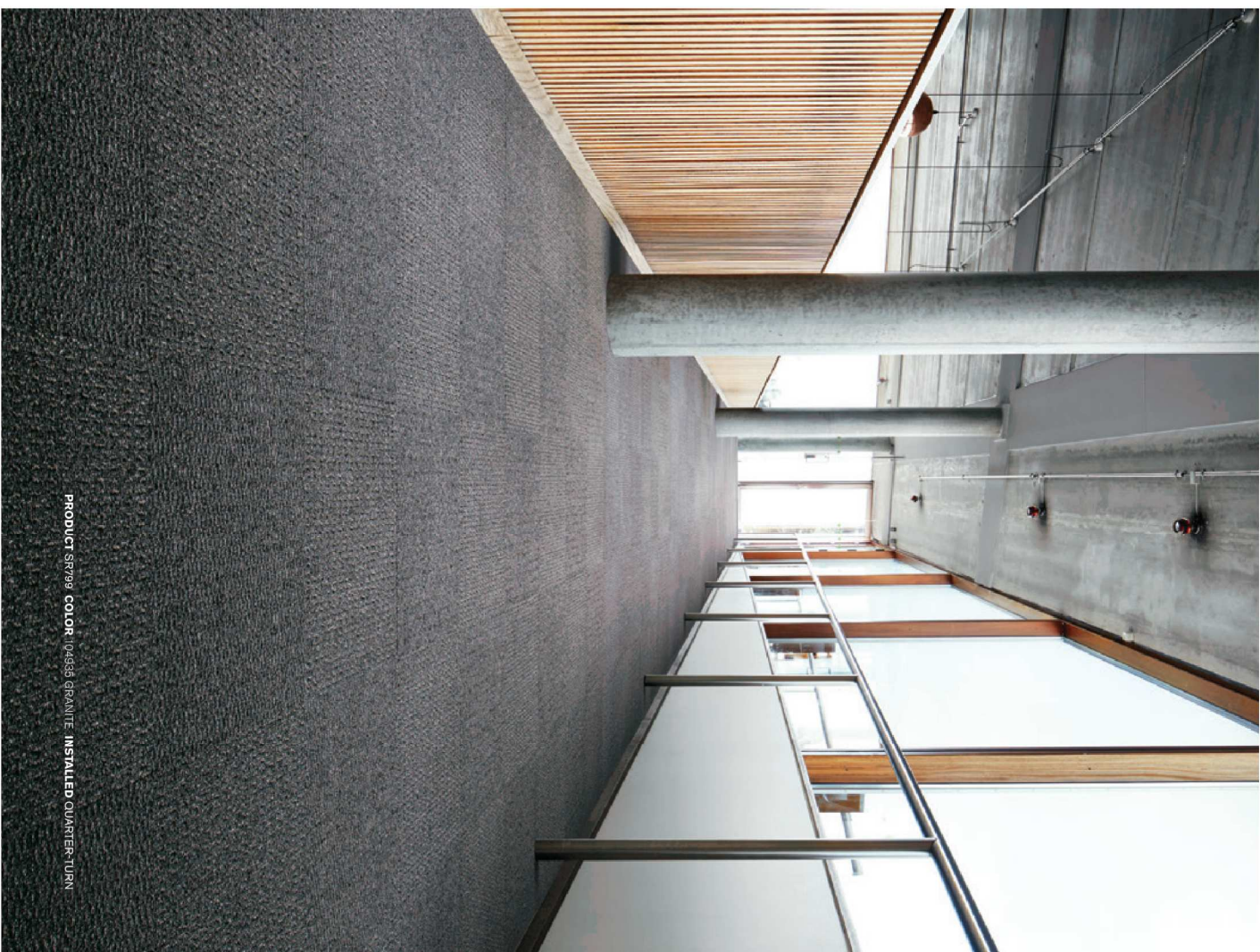
Installation Methods



QUARTER-TURN



BROWSE IMAGES
ORDER SAMPLES



PRODUCT SR799 COLOR 104935 GRANITE INSTALLED QUARTER-TURN



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interface.com

United States Headquarters
1280 West Peachtree Street NW
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1.800.634.6032

Canadian Headquarters
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Belleville, ON K8N 5S2
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Montes Urales # 415 Piso 6
Lomas de Chapultepec
Miguel Hidalgo, CDMX
11000 Mexico
+ 52.55.2791.6812

CIM# IF500826 02/2023

Level Set Collection | LVT

Natural Woodgrains

Interface®

 **CLIMATE TAKE BACK™**
Climate change is undeniable. And reversible. Our mission is to prove it. Join the #ClimateTakeBack and help create a climate fit for life.



interface.com

LVT PRODUCT NATURAL WOODGRAINS COLOR 400205 STORM INSTALLED ASHLAR
CARPET PRODUCT FIOR MOD CAFFE™ COLOR SIVARLINEN INSTALLED MONOLITHIC



interface.com

LVT PRODUCT NATURAL WOODGRAINS COLOR A00206 WINTER GREY
CARPET PRODUCT WORLD WOVEN | WW895 COLOR 105379 FUCHSIA WEAVE INSTALLED ASHLAR



LVT PRODUCT NATURAL WOODGRAINS COLOR A00205 STORM INSTALLED ASHLAR
CARPET PRODUCT FLO® COLLINS COTTAGE™ COLOR HOUND LINEN INSTALLED NON DIRECTIONAL

Specifications

Product Number A002
Product Construction High Performance Luxury Vinyl Tile
Class / ASTM F700 Class III Printed Vinyl Tile
Wear Layer Thickness 22 mil
Total Thickness 4.5mm
Backing Class Commercial Grade
Finish Ceramote™ Coating
Nominal Dimensions 25cm x 1m (9.845 in x 39.38)
Total Recycled Content (Pre Consumer) 39%
Indoor Air Quality GREENGUARD Gold

Full Life Cycle Carbon Emissions FloorScore® Certified
Environmental Certifications CDPH 01350 Compliant
LEED V4 Carbon Neutral Floors™
NSF/ANSI 332 Silver
Contributes to multiple LEO and MR credits

[View the full product specification on *interface.com*.](#)

Installation Methods



ASHLAR



HERRINGBONE



BROWSE IMAGES
ORDER SAMPLES

Natural Woodgrains™ Color Range



A00201 BLACK WALNUT



A00202 MADAGASCAR



A00203 CHESTNUT



A00204 BEECH



A00205 STORM



A00206 WINTER GREY



A00207 WASHED WHEAT



A00208 SAND DUNE



A00209 MAHOGANY



A00210 TEAK



A00211 WASHED MAPLE



A00212 CEDAR



A00214 BAMBOO (Minimum Order Quantity May Be Required)

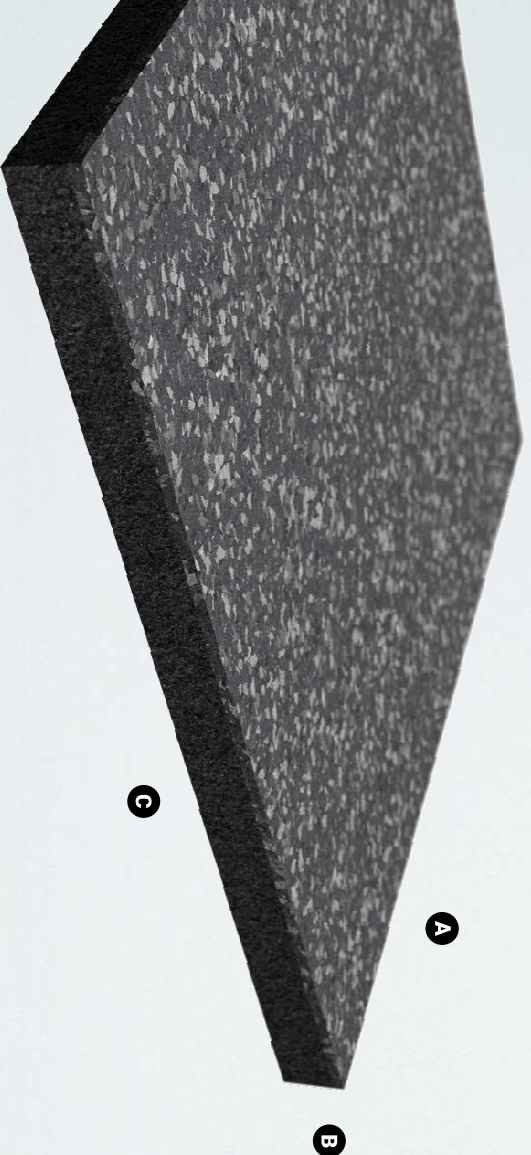


interface.com

LVT PRODUCT NATURAL WOODGRAINS COLOR A00204 BEECH INSTALLED ASHLAR
CARPET PRODUCT UR102 COLOR 102994 GRANITE INSTALLED NON DIRECTIONAL

Achieve

Dual layer rubber



CHARACTERISTICS

- A.** Achieve's 3mm top layer delivers solid-grip technology, indentation resistance and boosted color retention.
- B.** Achieve's patented fusion process creates an unbreakable seal, combining the system's dual layers into a premier surface that will not separate or weaken over time.
- C.** Developed alongside respected strength coaches around the world, Achieve's highly aggressive Plaetech™ foundation layer absorbs maximum shock on impact, diminishing barbell bounce and easing joint stress while simultaneously delivering ideal energy return levels for safer training.

APPLICATIONS

Achieve's performance characteristics are highlighted in weight room applications. Other uses include athletic and military training facilities, fitness centers, locker rooms, etc.

WARRANTY

PLAE warrants that Achieve, when installed using recommended procedures and adhesives, shall be free of manufacturing defects under normal use for 15 years from the date of its original installation. Please see Achieve's warranty for details.

PLAE

Achieve

Dual layer rubber

Available in three thicknesses, Achieve's dual layers are fused together by a patented process that will not separate or weaken. Our innovative underlayment delivers maximum shock absorption and explosive energy return, providing a unique balance designed to optimize both safety and performance.

PHYSICAL CHARACTERISTICS

Surface: Smooth, seamless, solid-grip

Thickness: 8mm, 13mm, 18mm

Wear Layer: 3mm

Underlayment: 5mm, 10mm, 15mm

Weight per Area: 1.5, 2.7, 4.1 lbs/sq. foot

Roll Length: 8mm - 50', 13mm - 35', 18mm - 25'

Roll Width: 4'

PLANE



001 Black



D100 Apollo Black



D951 Lunar Charcoal



D952 Artemis Gray



D953 Eagle Greige



900 Blue



903 Taupe



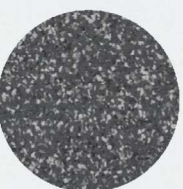
905 Charcoal



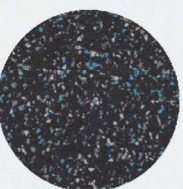
906 Espresso



909 Red



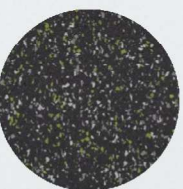
910 Modern Gray



303 Blue Gray



304 Red Gray



307 Green Gray



308 Gray



Spec | Achieve

DESCRIPTION

MATERIALS: Recycled SBR rubber and EPDM rubber granules bound by polyurethane

ATTRIBUTES: Factory-fused, dual-layer rolls and tiles provide resistance to sagging and indentation by direct, blunt impact. Entire system delivers maximum durability and simple maintenance. Platforms include three pieces of non-beveled Achieve tiles (one inlay and two bumper drop zones) and lie flush with surrounding Achieve.

APPLICATIONS

Achieve's performance characteristics are highlighted in weight room applications. Other uses include athletic and military training facilities, fitness centers, locker rooms, indoor tracks, etc.

WARRANTY

PLAE warrants that Achieve, when installed using its recommended procedures and adhesives, shall be free of manufacturing defects under normal use for a period of 15 years from the date of its original installation. Please refer to Achieve's warranty for full details.

PHYSICAL CHARACTERISTICS

SURFACE: Smooth, seamless, solid-grip; please refer to webpage for color options.

THICKNESS: 8mm, 13mm, 18mm
Wear Layer: 3mm
Underlayment: 5mm, 10mm, 15mm

WEIGHT PER AREA: 1.5, 2.7, 4.1 lbs/sq. foot

ROLL WIDTH: 4'

ROLL LENGTH: 3mm = 50'
8mm = 50'
13mm = 35'
18mm = 25'

PLATFORM THICKNESS: Wood: 0.75in
Rubber: 0.75in, 0.5in

PLATFORM SIZE: 4' x 6'

BUMPER SIZE: 2' x 6'

TECHNICAL CHARACTERISTICS

PERFORMANCE	STANDARDS	18mm	13mm	8mm
Tensile Strength	ASTM D412	188 lbs/sq in	158.5 lbs/sq inch	135 lbs/sq inch
Flexibility	ASTM F137	Pass	Pass	Pass
Thermal Conductivity	ASTM C518	1.0850 Btu in./h ft ² F	0.9809 Btu in./h ft ² F	0.4 Btu in./h ft ² F
Coefficient of Friction	ASTM D2047			
Neolite		Dry = 1.11/ Wet = 0.96	Dry = 1.11 /Wet = 0.96	Dry = 1.11/ Wet = 0.96
Leather		Dry = 1.05 /Wet = 0.89	Dry = 1.05 /Wet = 0.89	Dry = 1.05 /Wet = 0.89
Resistance to Light	ASTM F1515	Pass	Pass	Pass
Resistance to Chemicals (24 hrs and 5 min)	ASTM F925	Good	Good	Good
Taber Abrasion	ASTM F4060	Good	Good	Good
Resistance to Heat	ASTM F1514	Pass	Pass	Pass
Pill Flammability	ASTM D2859	Pass	Pass	Pass
Skid Resistance	ASTM E303	Dry = 99 / Wet = 99	Dry = 99 / Wet = 99	Dry = 99 / Wet = 99
Vertical Rebound	ASTM F2117	95%	99%	99.7%
Deformation	ASTM F2157	0.9mm	1.0mm	2.0mm
Force Reduction	ASTM F2569	33.1%	30.7%	12.6%
Weight Per Unit Area	ASTM D3776		337.0 oz/sq yard	
Acoustical Performance				
STC	ASTM E90	52	53	53
IIC	ASTM E492	52	55	54
ΔIIC	ASTM E2179	25	25	24

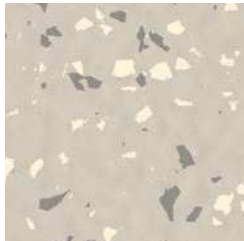


norament[®] grano

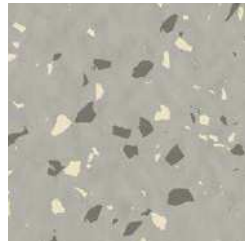
MODERN POSSIBILITIES.
ENDURING STYLE.

nora[®]

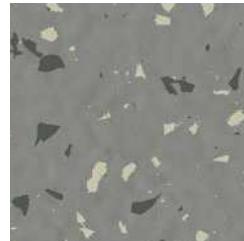
A new palette for contemporary designs



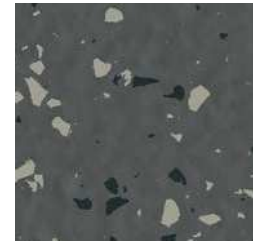
5301 White Fir ⚡ 📐 ↩



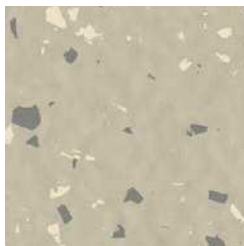
5302 Angelica Root ↩



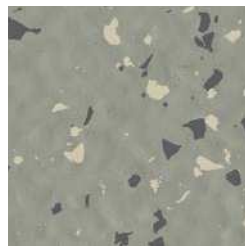
5303 Frankincense ■ ↩



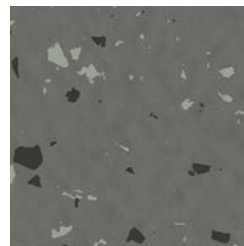
5304 Black Pepper ■ ⚡ 📐 ↩



5305 Agar



5306 Camphor ⚡ 📐



5307 Fenugreek



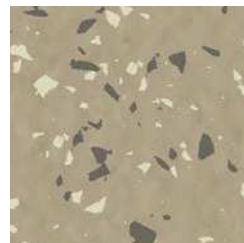
5308 Myrrh ↩



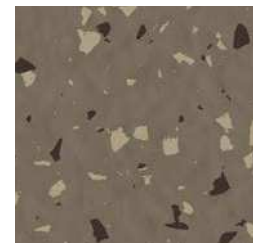
5309 Jasmine



5310 Helichrysum ■



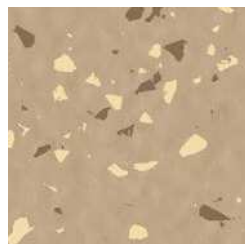
5311 Copaiba ■



5312 Vetiver



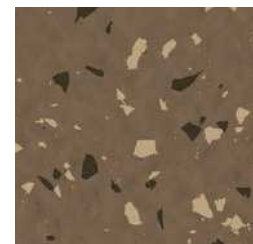
5313 Marjoram ↩



5314 Henna ↩



5315 Cedarwood ↩



5316 Siberian Fir

norament® grano

●●● 32 Colors

Art. 1880

□ ~40" x 40" (1004 mm x 1004 mm)

norament® grano ■

For raised-access floor panels

●●● 5 Colors*

Art. 1911

□ ~25" x 25" (625 mm x 625 mm)

norament® grano ed ⚡

●●● 8 Colors

Art. 1880

□ ~40" x 40" (1004 mm x 1004 mm)

norament® grano ed 📐

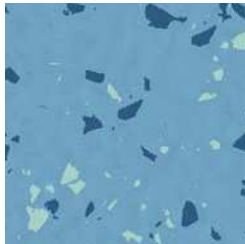
For raised-access floor panels

●●● 5 Colors*

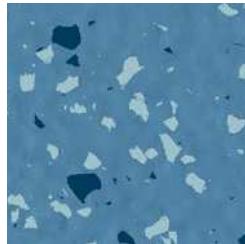
Art. 1912

□ ~25" x 25" (625 mm x 625 mm)

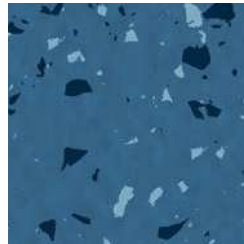
Customize every interior with the accessories and solutions of norament® grano.
 Explore our system solutions, including the nora® nTx system and electrostatic
 dissipative (ED) options, stairtreads and more.



5317 Agapanthus ⚡🌿📐



5318 Blue Tansy 🟩⚡🌿📐



5319 Spikenard



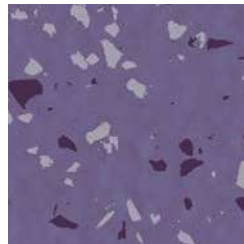
5320 Sassafraz



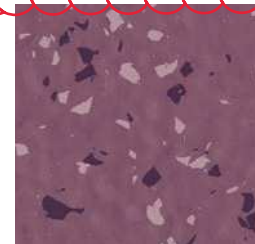
5321 Wintergreen ⚡



5322 Ylang-ylang



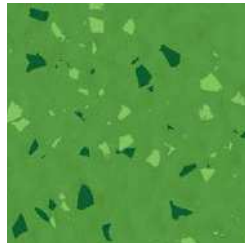
5323 Plumeria



5324 Patchouli



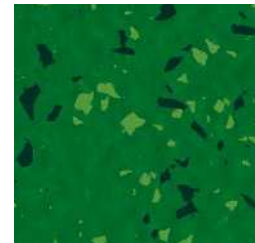
5325 Balsam ⚡📐



5326 Fennel Seed



5327 Tea Tree



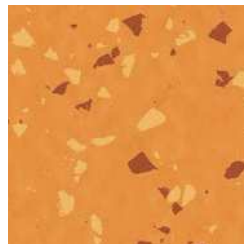
5328 Arborvitae



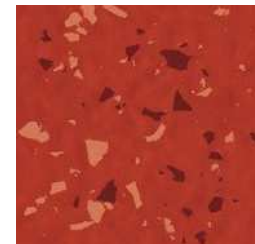
5329 Bergamot ⚡📐



5330 Cassia



5331 Neroli



5332 Geranium

norament® grano nTx 🌿

32 Colors*

Art. 3111

□ ~40" x 40" (1004 mm x 1004 mm)



These colors can also be delivered as:

📐 Stairtread norament® grano

* Minimum quantities may be required. Contact your nora® Sales Representative or visit www.nora.com/us to view our QuickShip colors.

~ English standard measurements are approximate.

DIVISION 09 - FINISHES
SECTION 096500 RESILIENT FLOORING

norament[®] grano[™]

This document is provided to assist in the preparation of a Project or Master Specification and has been formatted in accordance with the Construction Specifications Institute (CSI)'s MasterFormat[®].

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS which are hereby made a part of this Section of the Specifications.

1.2 DESCRIPTION OF WORK

- A. Work Included: Provide labor, materials, and equipment necessary to complete the work of this Section, including but not limited to the following:
1. Resilient tile flooring for commercial traffic.
 2. Resilient sheet flooring for commercial traffic.
 3. Resilient sheet flooring for commercial traffic with pre-applied adhesive.
 4. Resilient tile flooring for special fire requirements.
 5. Resilient tile flooring for extra heavy traffic, ice skate, and golf spike resistant.
 6. Resilient tile flooring for pre-installed raised access flooring, or releasable application.
 7. Resilient tile flooring for electrostatic dissipative protection.
 8. Resilient sheet flooring for electrostatic dissipative protection.
 9. Resilient stair treads (one-piece nosing, tread, and riser).
 10. Resilient stair accessories.
 11. Resilient wall base, sanitary base, and accessories.
 12. Substrate preparation.
- B. Related Work: The following items are not included in this Section and are specified under the designated Sections:
- | | |
|-------------------|---|
| 1. Section 033000 | CAST-IN-PLACE CONCRETE for concrete substrate; slab surface tolerances; vapor retarder for applications on or below grade; requirement for 83/90-degree riser and tread edge angle for stair tread and nosings. |
| 2. Section 055100 | METAL STAIRS AND RAILINGS; requirement for 83/90-degree riser and tread edge angle for stair tread and nosings. |
| 3. Section 061000 | ROUGH CARPENTRY for plywood substrate and surface tolerances. |
| 4. Section 096900 | ACCESS FLOORING for resilient floor covering for access panels. |
- C. References (Industry Standards):
1. American Association of Textile Chemists and Colorists (AATCC):

- a. AATCC 134 Electrostatic Propensity of Carpets
- 2. American National Standards Institute (ANSI):
 - a. ANSI ESD S97.2 Floor Materials and Footwear – Voltage Measurement on a Person
- 3. ASTM International (ASTM):
 - a. ASTM C518 Standard Test Method for Steady State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
 - b. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension
 - c. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine
 - d. ASTM D2240 Standard Test Method for Rubber Property – Durometer Hardness
 - e. ASTM D3389 Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform, Double Head Abrader)
 - f. ASTM D6499 Standard Test Method for the Immunological Measurement of Antigenic Protein in Natural Rubber and its Products
 - g. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
 - h. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
 - i. ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
 - j. ASTM E1745 Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs
 - k. ASTM E2179 Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors
 - l. ASTM E2180 Standard Test Method for Determining the Activity of Incorporated Antimicrobial Agent(s) in Polymeric or Hydrophobic Materials
 - m. ASTM F150 Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring
 - n. ASTM F155 Method of Test for Temper of Strip and Sheet Metals for Electronic Devices
 - o. ASTM F386 Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces
 - p. ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
 - q. ASTM F925 Standard Test Method for Resistance to Chemicals of Resilient Flooring
 - r. ASTM F970 Standard Test Method for Static Load Limit
 - s. ASTM F1344 Standard Specification for Rubber Floor Tile
 - t. ASTM F1482 Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring
 - u. ASTM F1514 Standard Test Method for Measuring Heat Stability of Resilient Flooring by Color
 - v. ASTM F1515 Standard Test Method for Measuring Light Stability of Resilient Flooring by Color Change
 - w. ASTM F1859 Standard Specification for Rubber Sheet Floor Covering Without Backing
 - x. ASTM F1860 Standard Specification for Rubber Sheet Floor Covering with Backing
 - y. ASTM F1861 Standard Specification for Resilient Wall Base

- z. ASTM F2055 Standard Test Method for Size and Squareness of Resilient Floor Tile by Dial Gage Method
 - aa. ASTM F2169 Standard Specification for Resilient Stair Treads
 - bb. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes
 - cc. ASTM F2199 Standard Test Method for Determining Dimensional Stability of Resilient Floor Tile after Exposure to Heat
 - dd. ASTM F2753 Standard Practice to Evaluate the Effect of Dynamic Rolling Load over Resilient Floor Covering System
 - ee. ASTM F3010 Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings
 - ff. ASTM G21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi
- 4. European Norm (FTM):
 - a. FTM 101 C 4046 Static Decay
 - 5. International Organization for Standardization (ISO):
 - a. ISO 10140-3 Measurement of sound insulation in buildings and of building elements
 - b. ISO 26987 Determination of staining and resistance to chemicals
 - 6. National Fire Protection Association (NFPA):
 - a. NFPA 253 Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Energy Source
 - b. NFPA 258 Test Method for Specific Density of Smoke Generated by Solid Materials
 - 7. Standards Council of Canada (SCC):
 - a. CAN/ULC-S102.2 Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, installation instructions and maintenance guidelines for each material and accessory proposed for use.
- B. Samples: Submit three representative samples of each product specified for verification.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Provide resilient flooring manufactured by a firm with a minimum of 10 years' experience with resilient flooring of type equivalent to those specified.
 - 1. Manufacturer's quality management system must have ISO 9001:2000 approval.
 - 2. Provide resilient flooring products and accessories from one manufacturer to ensure compatibility.
 - 3. Manufacturer shall be capable of providing technical training and technical field service representation.
- B. Installer Qualifications: Acceptable to manufacturer of resilient flooring or INSTALL (International Standards & Training Alliance) resilient certified for the requirements of the project with a minimum of 4 years' experience with resilient flooring of type equivalent to those specified.
 - 1. It is recommended to have a minimum of one installer per working party with the ability to provide proof of current credentials at request.

2. Has obtained and maintained current credentials from manufacturer's training program.
3. Installers shall be able to exhibit proficient skills with flash cove detailing, both hot and cold-welding techniques, adhesives, specialty adhesive systems and seam cutting.
4. The installing parties shall provide a submittal of their skills in the form of mock-ups of the specified material. These mock-ups will be accepted as proof of their skills and benchmarking for the proposed project.

C. Sustainable Design Requirements:

1. ISO 14001 Environmental Management Systems certification.
2. Construction waste take back program for the purpose of reducing jobsite waste by taking back uninstalled waste flooring. Details of the nora® program are available at www.nora.com.
3. Flooring surfaces that are easily cleaned and do not require coatings, stripping, or use of chemicals that may be hazardous to human health.
4. Supply all required products that are CA 01350 compliant.
5. Flooring that contains no polyvinyl chloride or phthalate plasticizers.
6. Flooring that contains no halogenated polymers.
7. Flooring that contains no asbestos.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in labeled packages. Store and handle in strict compliance with manufacturer's recommendations. Protect from damage due to weather, excessive temperatures, and construction operations.
- B. Deliver materials sufficiently in advance of installation to condition materials to the required temperature for 48-hours prior to installation.

1.6 PROJECT CONDITIONS

- A. The installation area must be fully enclosed, weather tight, and climate controlled between 63°F and 75°F and 40% to 60% ambient relative humidity (RH) for at least 48 hours prior, during and 72 hours after installation (do not use gas fueled blowers). Dew point must be avoided. The substrate must be at least 5°F above dew point to be considered acceptable.

1.7 WARRANTY

- A. Provide manufacturer's standard limited warranty for wear, defect, bond, and conductivity.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURER

- A. Basis-of-Design: nora systems, Inc., 9 Northeastern Blvd., Salem, NH 03079; telephone 800-332-NORA or 603-894-1021; fax 603-894-6615.

2.2 RESILIENT TILE FLOORING FOR COMMERCIAL TRAFFIC

- A. Rubber Floor Tile:

1. Product Name: **norament® grano™, Article 1880**

2.	ASTM Specification: ASTM F1344 Standard Specification for Rubber Floor Tile	Type IB and Grade 2
3.	Limited Wear Warranty:	15 years
4.	Material:	nora vulcanized rubber compound 926 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium, or mercury
5.	Composition:	Homogeneous rubber compound with a random scattered design
6.	Color:	32 standard colors
7.	Surface:	Hammered
8.	Back of Tile:	Double-sanded smooth
9.	Material Size (ASTM F2055): ± 0.02 inches (± 0.5mm) is required	39.53 inches by 39.53 inches (1004mm by 1004mm)
10.	Squareness (ASTM F2055): ± 0.010 inches (± 0.254mm) is required	Meets requirements
11.	Thickness (ASTM F386): + 0.015/-0.005 inches (+ 0.381/-0.127mm) is required	0.14 inches (3.5mm)
12.	Dimensional Stability (ASTM F2199): ≤ 0.15% in both directions is required	Meets requirements
13.	Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required	NBSIR 75 950, 0.92
14.	Smoke Density (ASTM E662/NFPA 258): < 450 is required	NBS, 267 (flaming) and 130 (non-flaming)
15.	Surface Burning (CAN/ULC-S102.2):	FSC1 of 70 and SD of 470
16.	Burn Resistance:	Resistant to cigarette and solder burns
17.	Slip Resistance (ASTM D2047): ≥ 0.5 is required	Static coefficient of friction, Neolite dry 0.99, Neolite wet 0.95
18.	Bacteria Resistance (ASTM E2180/ASTM G21):	Resistant to bacteria, fungi, and micro-organism activity
19.	Indoor Air Quality:	Greenguard Gold Certified for low VOC emissions in compliance with CDPH 01350
20.	Carbon:	3rd party verified carbon neutral throughout their entire life cycle through the Interface Carbon Neutral Floors™ program. Learn more at www.interface.com/carbonneutral .
21.	Latex Allergies (ASTM D6499):	Inhibition ELISA, results are below detection level
22.	Sound Absorption (ASTM E2179/ISO 10140-3):	Δ IIC 11, Δ Lw 11 dB (compare only Δ values)
23.	Sound Generation:	66.3 dBA, 68.5 dBC and 19.6 Sones, independently tested
24.	Hardness (ASTM D2240): ≥ 70 is required	Shore type "A", 82
25.	Static Load (ASTM F970): ≤ 0.005 inches with 250 lbs. is required	Residual compression of 0.005 inches with 800 lbs.

- | | |
|---|---|
| 26. Rolling Load Limit (ASTM F2753): | ≤ 850 lbs. / sq. inch; for forklift traffic nora polyurethane adhesive is required |
| 27. Abrasion Resistance (ASTM D3389):
≤ 0.035 oz. (1.0g) is required | 1.1 lbs. (500g) load on H-18 wheel with 1000 cycles, 0.002 oz. (0.05g) weight loss |
| 28. Oil & Grease Resistance (EN/ISO 26987): | Yes |
| 29. Heat Resistance (ASTM F1514):
Avg. ΔE ≤ 8.0 is required | Easily achieved with all batches and regular maintenance |
| 30. Static Generation (AATCC 134): | < 1000 Volts at 20% RH |
| 31. Thermal Transmission (ASTM C518): | R-value of -0.90 |
| 32. Cleaning: | Cleaned and maintained effectively using water, nora pads and a suitable cleaning machine, without the use of any factory and/or field-applied coatings. Also, without using any chemicals that may be hazardous or containing any teratogenic, mutagenic or any other ingredients known to be carcinogenic. Refer to nora Maintenance Guidelines for product specific details. |
| 33. Shine: | Higher shine achieved by buffing without any artificial topical applied coatings. |
| 34. Stain Removal: | Samples of the product must be provided for stain removal testing by the owner. Sample size should be ~ 1 m ² , pre-cleaned by manufacture per published recommendations. Samples must have no coatings, sealers, floor finish or other manually or mechanically applied finish on the surface of the product. Stain testing must consist of application of common healthcare related disinfectants and chemicals to include, but not limited to, Betadine, Methylene Blue, Silver Nitrate, and alcohol-based hand sanitizer. Duration of test period must be no less than one week. Removal of chemicals must be in accordance with manufacturers published cleaning and maintenance recommendations. |
| 35. Substrate Preparation: | Per ASTM F710 and the nora Installation Instructions |

PART 3 - GENERAL

3.1 GENERAL CONTRACTOR RESPONSIBILITIES

- A. Supply a safe, climate-controlled building and subfloor as detailed in the nora Installation Instructions (available at www.nora.com)
- B. A subfloor that meets the requirements of ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring is required, or as detailed in the nora Installation Instructions or nora nTx Installation Instructions as appropriate.
- C. A secure storage area that is fully enclosed, weather tight, and climate controlled between 63°F and 75°F and 40% to 60% ambient relative humidity (RH) for at least 48-hours prior and during the installation, so the flooring contractor can acclimate all materials.

- D. An installation area that is fully enclosed, weather tight, and climate controlled between 63°F and 75° and 40% to 60% ambient relative humidity (RH) for at least 48-hours prior, during, and 72-hours after installation (do not use gas fueled blowers). If this is not possible, contact the nora Technical Department.
- E. Areas with direct prolonged exposure to sunlight should be protected with the use of Low E glass doors, windows or facades that reduce the UV transmissions to less than 1%.
- F. Areas of the flooring subjected to direct sunlight, for example through doors or windows, must be covered using blind, curtains, cardboard, or similar materials for 24-hours before, during, and for a period of 72-hours after the installation to allow nora “wet” adhesives to cure. Do not allow traffic when using wet set adhesives for a minimum of 12-hours and prohibit rolling loads for 72-hours. When using nora® nTx™ or nora dryfix™, the flooring can be trafficked immediately with no restrictions. All flooring must be protected from damage during construction operations using Masonite, plywood, or a similar product. Before laying the panels, the flooring surface must be free of all debris. Lay panels so that they are edge to edge and tape the joints to prevent movement and debris entrapment. Inspect the flooring before covering and after removal for final acceptance.
- G. Conduct post-installation cleaning after 72-hours for wet set adhesives. Conduct post-installation cleaning immediately for installations using nora dryfix or nora nTx. Refer to the appropriate nora Maintenance Guidelines for product specific details.

3.2 FLOORING CONTRACTOR RESPONSIBILITIES

- A. Provide trained installers that have at least one of the following:
 - 1. Approved by specified manufacturer (nora systems, Inc.) or INSTALL (International Standards & Training Alliance) certified for the requirements of the project.
 - 2. It is recommended to have a minimum of one installer per working party with the ability to provide proof of current credentials at request.
 - 3. An effective installation manager to manage the project, installers, and ensure that all the required procedures are followed as detailed in the nora Installation Instructions (available at www.nora.com).
- B. Follow all requirements in the appropriate nora Installation Instructions or nora nTx Installation Instructions.

END OF SECTION

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nora PU MR95

Two-component urethane adhesive designed specifically for the installation of specific nora rubber floor coverings on suitable substrates. When parts A & B are thoroughly mixed together, they form a reactive adhesive that cures to a tough, flexible film with a good resistance to surface moisture and many chemicals.

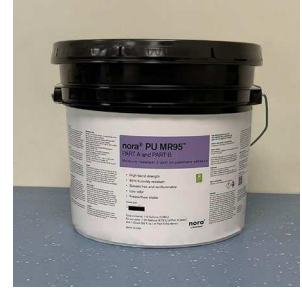
Product Data

Product: nora® PU MR95™, Article 6696

Description: A two-component urethane adhesive for the installation of specific nora rubber flooring products.

Characteristics:

- Size/description: 1.5-gallon unit within a 2-gallon pail (Parts A & B)



Technical Data

Shelf Life:	12 Months
Application:	1/32" x 1/16" x 1/32" U-notch trowel
Coverage:	~ 240 - 270 square feet per 1.5-gallon unit
Open Time:	~ 30 - 45 minutes
Working Time:	~ 120 minutes
Storage:	Room temperature and away from direct sunlight
Moisture Limit:	≤ 95% RH following ASTM F2170 <i>Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes</i>
Freeze/Thaw stable:	Stable per ASTM D7149 at 0°F (- 18°C)

Environmental Attributes

Carbon: All flooring products 3rd party verified carbon neutral throughout their entire life cycle through the Interface Carbon Neutral Floors™ program. Learn more at www.interface.com/carbonneutral.

Indoor Air Quality: GREENGUARD Gold Certified for low VOC emissions in compliance with CDPH 01350.

Material Composition: Free of organic solvents, formaldehyde, asbestos, lindane, rosins, phthalates, or any other volatile components

VOC Content: < 19 grams/liter; product is in compliance with the South Coast (CA) Air Quality Management District Rule 1168 Standard for Rubber Floor Adhesives, which have a VOC limit of 60 grams/liter.

LEED Contribution: Meets VOC emissions and content requirements of LEED.

Installation

Site Conditions: The installation area must be fully enclosed, weather tight, and climate controlled between 63°F and 75°F and 40% to 60% ambient relative humidity (RH) for at least 48 hours prior, during and 72 hours after installation.

Substrate Requirements: Concrete, wood, metal, and existing floors (existing floors must be only one layer and non-cushioned back); refer to the nora Installation Instructions for details. Must have an effective vapor retarder.

Unique Characteristics:

- Non-flammable and freeze/thaw stable

- If specified, hot or cold welding of flooring can commence after 12 hours

For complete installation instructions, refer to the nora Installation Instructions.

Disclaimer

It is the user's responsibility to read, understand and follow the nora Installation Instructions, Product Data Sheet, and Safety Data Sheet available on www.nora.com. You should comply with all applicable OSHA, local, state, and federal regulations.

Clean-up

Immediately remove any fresh adhesive from the surface of the flooring using 70% Isopropyl Alcohol and a clean cloth. Once cured, dried adhesive can only be mechanically removed and will damage most surfaces.

Disposal

Dispose in accordance with local, state, and federal regulations. Where possible, collect product residues and reuse. Do not allow product to get into drains, watercourses, or landfill. Collect any remaining waste material, mix both components, allow to harden, and then dispose of as Construction Waste.

Traffic

- Heavy foot traffic is allowed after 24 hours.
- Castor chairs and heavy rolling load after 48 hours.
- Withstands heavy foot traffic and heavy rolling loads.
- Withstands forklift traffic.

Contact the nora Technical Department for confirmation of adhesive and flooring limits.

Warranty

See nora Product Warranty - Americas.

For current nora Installation Instructions, Guide Specifications, Maintenance Guidelines, and Product Warranties, please visit www.nora.com.

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Updated: June 2022



 **Tarkett** SPORTS

DROPTURF

.....

BUILT FOR INTENSE, MULTISPORT TRAINING

DROPTURF: BUILT FOR INTENSE, MULTISPORT TRAINING



.....

DropTurf features a strong textured polyethylene slit-film fiber designed specifically for intense indoor training areas. The system offers excellent durability with less abrasiveness than typical nylon or polypropylene carpets.

Combined with a 5mm foam backing, DropTurf doesn't sacrifice on comfort or performance.

With a multitude of available colors, you can truly make your facility unique. Backed by FieldTurf's leading reputation and quality, you can trust that DropTurf is the optimal solution for your training or indoor multisport area.

DROPTURF



5 YEAR
PRODUCT WARRANTY

DROPTURF is a durable product that is manufactured by FieldTurf for indoor use. DropTurf features tough fibers for agility uses. DropTurf provides a much less abrasive surface than nylon or polypropylene and superior wear resistance to withstand the harshest treatment. DropTurf is approximately 25 mm thick, combining a 20 mm polyethylene turf with a 5 mm foam backing, providing superior safety & performance.

FORMAT OPTIONS



ROLLS
15' wide, custom length

APPLICATIONS



TURF/FIELDS



FUNCTIONAL
TRAINING



EXTREME
FUNCTIONAL
TRAINING

SPECIFICATIONS

- ▶ **FIBER HEIGHT:** 0.75"
- ▶ **FIBER TYPE:** SLIT-FILM & THATCH
- ▶ **GAUGE:** 3/16"
- ▶ **BACKING:** 5 MM

COLOR SELECTION

DropTurf comes with **7 color options**, which makes it easy to create unique indoor designs or match the colors of a school or team. Other colors are available via custom order.



BUILT FOR INTENSE, MULTISPORT TRAINING | 15

BENEFITS

IDEAL FOR VARIOUS APPLICATIONS

DropTurf is ideal for indoor specialty sports, training facilities, CrossFit centers, and more.

ACCOMMODATES A LARGER NUMBER OF SPORTS AND ACTIVITIES

It comes standard in a blend color, in 15 foot widths and a 5mm foam backing

CUSTOM DESIGN POSSIBILITIES

Our exclusive water jet cutting system smoothly cuts some of the world's most sophisticated and beautiful turf designs. The end result is unrivaled detail, large color palettes, and the capability to create complex projects.

TARKETT SPORTS WARRANTY PROTECTION

The quality and performance of DropTurf is protected by Tarkett Sports with a comprehensive 5-year warranty.

nora **wall base**



The Finishing Touch

Delivering a consistent height and toe dimension you can depend on, nora® wall base exudes a professional appearance that adds that final touch to your installation.

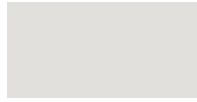
- Superb flexibility, scratch and scuff resistance
- No color drifts and no dye lots
- UV resistance, color will not fade
- Ribbed back design for more secure adhesion
- Micro squared angled up-cut to minimize joint visibility
- Stable dimensions - height, toe, gauge, etc.
- Reinforced cove for greater durability in the toughest applications
- GREENGUARD Gold certified
- Carbon Neutral Floors™
- Available in 20 colors
- Standard in 4" height coved-base, 120' flexible rolls
- Alternate sizes, styles and formats possible; call for details

Created with carefully selected raw materials that provide high quality performance – we're here to meet your needs, from a five year limited wear warranty, to a broad color palette that will work with any style. If the color you need is not already available, nora wall base has the ability to be custom color matched to any floor, wall, fabric, or paint swatch. Simply provide a sample of the color you would like matched, and we will do the rest.

Color Range



6267 floral white



6232 light grey



6246 grey nickel



6298 silver



6204 cobblestone



6233 dove grey



6205 platinum



6286 gunsmoke



6266 hurricane



6229 outerspace



6211 steel blue



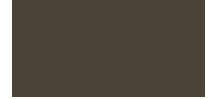
6201 black



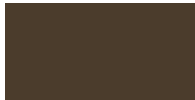
6235 slate grey



6202 armadillo



6294 stone grey



6254 dark chocolate



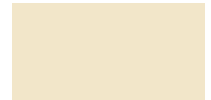
6240 pale oyster



6214 acorn



6248 burlywood



6249 butter cream

nora wall base

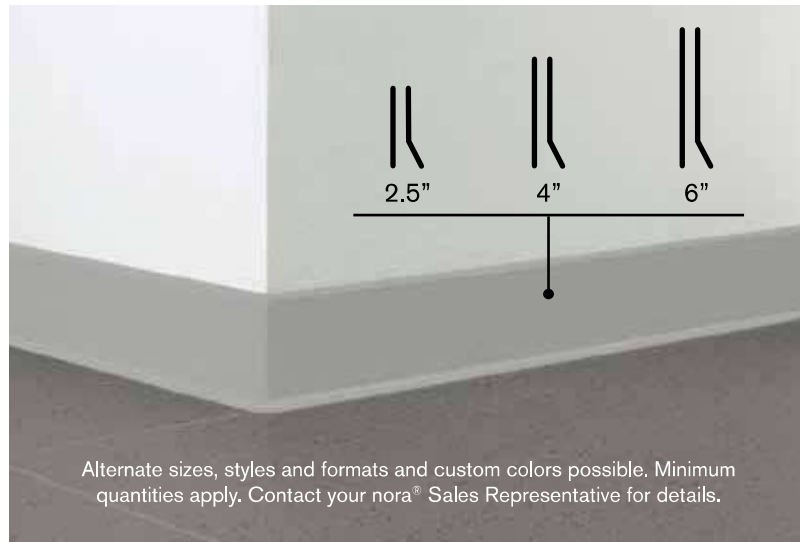
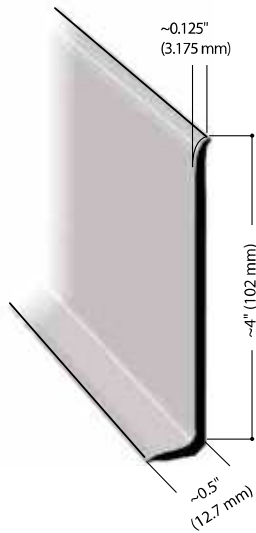


Art. 820

Length: 120' roll (36.6 m)

Height: ~4" (102 mm)

Note: Due to color variations in printing, please refer to actual samples for accurate color. nora wall base is intended to complement our floor coverings and will not match exact color due to variation in product recipes and production batches. Please do not specify or order solely using color names as a guide to color, as names are often shared across multiple products. We recommend ordering samples of each product prior to selection for the best results. Custom color matching is available.



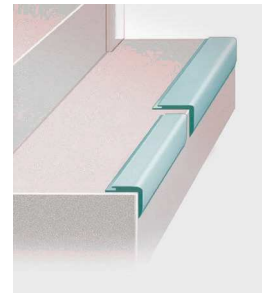
Alternate sizes, styles and formats and custom colors possible. Minimum quantities apply. Contact your nora® Sales Representative for details.

nora systems, Inc.
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 Salem, NH 03079
 T: 800-332-NORA
 T: 603.894.1021
 info-us@nora.com
 www.nora.com

nora®
 by Interface®

nora stair nosings

Rubber nosing with a slide-in lip for installation on all types of staircases. For use with noraplan® or norament® floor coverings.



Product Data

Product: nora® stair nosings

- Article 802 – T 5044 A/C, E/F
- Article 805 – T 5049 A/C, E/F

Description: nora vulcanized rubber compound 961 with natural fillers and environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium, or mercury.

Material Size:

- Length: 8.2 feet (2.5 m)
- Depth: T 5049 2.0 inches (50 mm), T 5044 2.75 inches (70 mm)
- Height: T 5049 1.77 inches (45 mm), T 5044 1.69 inches (43 mm)
- Thickness: A/C 0.25 inches (6.5 mm), E/F 0.31 inches (8 mm)

Composition: Homogeneous rubber compound

Colors: 8 Standard

Surface: Smooth

Technical Data

ASTM F1861 Standard Specification for Resilient Wall Base	Type TP: Thermoplastic Rubber
Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required	NBSIR 75 950, 0.52
Smoke Density (ASTM E662/NFPA 258): < 450 is required	NBS, 289 (flaming) and 273 (non-flaming)
Slip Resistance (ASTM D2047): ≥ 0.5 is required	Static coefficient of friction, Neolite dry 0.95, Neolite wet 0.94
Bacteria Resistance (ASTM E2180/ASTM G21):	Resistant to bacteria, fungi, and micro-organism activity
Hardness (ASTM D2240):	Shore type "A", 92

Environmental Attributes

Carbon: All flooring products 3rd party verified carbon neutral throughout their entire life cycle through the Interface Carbon Neutral Floors™ program. Learn more at www.interface.com/carbonneutral.

Indoor Air Quality: GREENGUARD Gold Certified for Low VOC Emissions in compliance with CDPH 01350

Material Composition: Free of added formaldehyde, heavy metals and ortho-phthalates, fluorinated chemicals (PFAS), and halogenated flame retardants

Production Plant Certifications: ISO 9001:2000, ISO 14001

Installation

Site Conditions: The installation area must be fully enclosed, weather tight, and climate controlled between 63°F and 75°F and 40% to 60% ambient relative humidity (RH) for at least 48 hours prior, during and 72 hours after installation.

Adhesive: Use Contact cement or nora® PU MR95™.

Unique Characteristics:

- Good for very heavy traffic
- Excellent slip resistance
- High fire-retardant properties
- VI inserts available
- No coatings needed
- Allows for the installation of nora products on unusual stair designs

For complete installation instructions refer to the nora Installation Instructions.

Care and Cleaning

Refer to the nora Maintenance Guidelines.

Wheel Types

No metal or hard plastic wheels, the shape of the contact surface of wheels must be flat with round edges. The shore hardness must be type A ≤ 90.

Storage

nora flooring can be stored within a temperature range of -5°F (-21°C) to 120°F (49°C) under the following conditions: Pallets must remain intact with sheet goods standing on end, undamaged, not be stacked, be in a permanently dry environment, and with no direct sunlight. However, all adhesives and cold weld must remain at room temperature without freezing.

Warranty

Limited 5-year warranty. Refer to the nora Product Warranty - Americas.

Current nora Installation Instructions, Guide Specifications, Maintenance Guidelines, and Product Warranties, can be found at www.nora.com.

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Updated: June 2022