

Premier[™] luxury vinyl

made by NOVALIS

LUXURY VINYL TILE & GROUT DIRECT-GLUE INSTALLATION GUIDE

STAINMASTER

PRODUCT HANDLING AND SITE CONDITIONS

1. Store cartons of tile and/or plank with cartons stacked one on top of the other. Do not store on end or sides, or allow cartons to bend during storage or transportation.

2. IMPORTANT: Deliver and actimate all material including maintenance products to job site at 65°-85° Fahrenheit (18° to 29° Celsius) for 48 hours prior to installation** The space where flooring is to be installed shall be tuly endoced and the permanent HVAC system shall be operational prior to installing flooring. The temperature shall be 65°-85° Fahrenheit (18° to 29° Celsius) for 48 hours be for installation, during installation and for 46 hours she installation. The temperature of the space installation of the space installation and for 46 hours she installation. Avoid for installation delivers are considered in the space installation of species of the space installation of species of the space installation of the space installation of species of the space installation of the sp

nacusure neated noors where heat does not exceed 85°F (29°C)
ing are not approved substrates for installing STAINMASTER* Premier** Luxury Vinyl Flooring:
Rubber, cork or asphalt tiles
Textured or cushion backed resilient flooring
Steeper* floor systems
Plywood floors that have been installed directly over a concrete slab
Luan, OSB, particle or chip
Masonite** or other hardboard underlayment
Masonite** or other hardboard underlayment
COV or other physical violation of the context phywood
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COV or other physical violations or opin effects
Underlayment made of pine or other soft woods
Hardwood flooring
Paint, wax, oil, grease, residual adhesive, mold, mildow, and other foreign materials that might
Other uneven or unstable substrates.

- subtoor may telegraph through the new STANMASTER* Premier** Luxury Vinyl floor, resulting in an unyle variace and cause excessive wear on high spots.

 Strate Preparation

 ubstrates must be properly prepared and tested according to the following guidelines.

 Concrete Subflows

 Although STANMASTER* Premier** Luxury Vinyl is not susceptible to damage from moisture, excessive subfloro moisture is an ideal breeding ground for moid, mildew and inpuss-ail of which can contribute to an unhealthy indoor living environment.

 3. Concrete slab construction shall be in accordance to industry standards for specification related to concrete mix design, curing methods and drying times to prevent moisture problems.

 5. On grade and below-gade slabs should be installed with a suitable super related infectly undermeth the concrete sish.

 6. On grade and below-gade slabs should be installed with a suitable super related infectly undermeth the concrete sish.

 7. On the sish of the sish of the sish of the installation of floor covering. Cur
 1. Grade and below-gade slabs should be installed with a suitable syper related infectly un
 2. On the sish of the sish of the sish to properly dry before installation. Ap
 1. Approximately 30 days per 17 of slab thickness.

 6. All concrete substrates, regardless of grade or age of slab, must be properly tested using one

 1. ASTM F 2170 in Stu Relative Humidity. Testing shall be conducted according to the instructions of the

 1. ASTM F 2170 in Stu Relative Humidity. Testing shall be conducted according to the instructions of the

 1. ASTM F 2170 in Stu Relative Humidity Test

 1. Relative humidity of the slab shall not exceed 75%. Floor covering should not be

 1. Institute of the testing equipment.

 1. ASTM F 2170 in Stu Relative from the second strate of the strat

 - ... so am or texture telegraphing
 iii. Discoloration of finished flooring due to materials used for filling
 in the face of the underlayment
 v. Use of Luan Plywood underlayment
 g. Unacceptable substrates shall be covered using a N" or thicker panel und
 mended for commercial use. Consult underlayment manufacturer for:
 i. Recommended uses of product
 iii. Warranty coverage
 iii. Joint spacing
 iv. Nailing or stapling pattern
 v. Nailing or stapling pattern
 h. Suitable underlayment prade exterior plywood.
 string Resilient Flooring
 a. When installing STAIMMASTER® Premier® Livers Void of States
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 in the control of the control o
- - or other underlayment grade exterior phywood.

 g Resilient Flooring gestlenet Flooring great existing resilient floors, the existing flooring must be:

 1. Single layer only
 11. Thoroughly stripped of all wax, floor finish, dirt and other contaminants that may all the contaminants of the substrate of the substra

- proper claning of residue left from liquid adhesive removers.

 MANNINGE

 DO NOT SAND, DRY SWEEP, BEADELAST, SHOTELAST ON USE ANY OTHER MECHANICAL
 BOARDS TO "VILVERIZE EXISTING THE FLOORING, BACKING, LINNING FLIX, APPHALTIC
 FIGERS ANDOIC CHYVTALLINE SILICA, AVOIG CREATING DUST, INHALATION OF SUCH
 SIT AS CARESTA AND REPARATORY THAT. THE FROM SHOWING IS INDIVIDUALS DC.
 HARM, UNILESS POSITIVELY CERTAIN THAT THE PRODUCT IS A NOIL-ABBERTOR CONHARM, UNILESS POSITIVELY CERTAIN THAT THE PRODUCT IS A NOIL-ABBERTOR CONHARM COUNTE THAT THE MATERIAL BE LETTED TO DETERMINE ABBERTOR CONTINUE.
- i. Tiles must be properly bonded with intact grout joints and free of cracks
 ii. Surface of tile and grout joints should be free from sealers, coatings, dirt and contam
- INSTALLING STAINMASTER™ PREMIER LUXURY VINYL FLOORING

room. STAINMASTER* Premier* Luxury Vinyl products can be cut using a tile cutter or a utility knife. Keep knife blades sharp for easy, accurate and safe cuts. Fit tiles to walls, columns, door jambs, etc. using the same methods other floor tiles; overlap, pattern scribe, wall scribe and free hand. If it is necessary to heat the tiles to achieve a cut, heat slightly from the back only with minim. heat setting (a standard hair dryer will produce enough heat). Carefully make cuts with a sharp utility knife on the heated tile.

- sharp utility nine on une nearest was:
 where selection
 Novalis adhesives are designed to be used on most interior installations over most concrete
 and wood substrates, and other approved substrates that are properly prepared and leveled.
 A complete guide to Novalis adhesives can be found at www.novalis-intl.com.
 Some commercial applications and special substrates at we-part peops or urethane adhesive
 recommended. Typical applications for these types of adhesives are wet areas, floors subject
 et to heavy point loads and/or rolling loads, and floors that will be exposed to externe temperature changes or extreme temperatures. Contact Novalis Technical Support at 1-866NOVALIS for proper adhesives and installation procedures before installation.
 If it is determined that a non-Novalis adhesive is to be used on an installation, Novalis recommends a written warranty be obtained by the adhesive manufacturer warranting this specific
 installation with their products.

INSTALLATION GUIDE

- ton.

 Before spreading athesive, strike a parallel chalk line to the centerline of the length of the room approximately 2 to 3' from the wall. Actual position is to be determined by the layout of the planks, ensure that the pattern is followed from your initial starting point determined in the dry layout performed earlier. If necessary, relay part of the pattern from centerline starting point determine the exact measurement of the pattern from centerline starting point to determine the exact measurement of the parallel line. the parallel line. Spread adhesive with a 1/16" x 1/32" x 1/32" u-notch trowel in an area that can be installed within the working time of the $\frac{1}{\sqrt{2}}$

 - in an area that can be insured to the sufficient to prevent slippage.

 vi. 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.

 vii. Roll the area with a 100 ib. roller in both directions immediately after installation.

 viii. Some slippage of the tile may occur with a "wet" method. Be careful to foliow layo lines and allow adhesive to set before rolling.
- wii. Roll the area with a 100 lb. roller in both directions immediately after installation.

 viii. Some slipage of the tile may occur with a "we" method. Be careful to follow layout
 lines and allow adhesive to set before rolling.

 In the control of the control

- suct Handling and Limitations

 Store indoors in a cool, dry location and keep away from excessive heat.

 Maintain temperature range of 60° 100°F (15° 38°C) during use and drying.

 Grout is freeze/thaw stable to -10°F. If grout does get frozen, slowly bring material back to room temperature and mix per instructions.

 Shelf-life is a maximum of 18 months from date of manufacture in unopened package. Product is good for 6 months after opening as long as bucket is re-sealed carefully and stored in a cool, dry, interior of the control of the

Tile Size	Grout	Joint	Width
	1/16" (1.59 mm)	1/8" (3.18 mm)	3/16" (4.76 mm)
12" x 12" x .10"	720 sq. ft.	360 sq. ft.	240 sq. ft.
(300 x 300 x 2.5 mm)	(66,89 m2)	(33,45 m²)	(22.30 m²)
12" x 24" x .10"	960 sq. ft.	480 sq. ft.	320 sq. ft.
(300 x 457 x 2.5 mm)	(89,19 m²)	(44,59 m²)	(29,73 m²)
18" x 18" x .10"	1080 sq. ft.	540 sq. ft.	360 sq. ft.
(457.2 x 457.2 x 2.5 mm)	(100.3 m²)	(50,17 m²)	(33,45 m ²)

- 13. Tiles must be clean and well bonded to the substrate before grout is applied.

 14. Do not grout immediately after installation, wait 24-48 hours on a "wet-set" install and a "dry-set" installation.

 15. Grout joints must be clean and dry, use of a vacuum is recommended to ensure the or contaminants in the joints.

 16. Use of a rigid, rubber-type float is recommended.

 17. Remove all joint spacers before installing grout into joints.
- STALLING THE GROUT

 1. Area must be clean, dry, free of dirt, dust and debris.

 2. Begin grouting in one corner of the work area away from the exit, working across the room and backwards towards the exit.

 3. Grout no more than 10 square feet (3 square meters) at a time.

 4. Using the rigid grout float, put a small amount of grout on the long edge of the float and firmly press the grout into the grout joint. Do not work the grout across the feace of the tille in a circular or swithing motion. Continue to work in this manner around the edges of the tille in your working space.

 5. Joints should be fully filled and free of gaps and voids. Grout should be flush with the bottom of the bevelor just below the edge of the fill in your working space.

 6. Use the short edge of the grout to remove excess grout from the joints. Hold the float at a 90 "angle and move diagonally down the length of the grout joint. Excess grout should be returned to the container for continued use.

 6. Grout should be rentinually cleaned in during grouting. It is a clean move already the continual cleaned in during grouting.
- forcut should be continually cleaned up during grouting. Use a clean, non-abrasive sponge specifically designed for grouting. Grout sponge should be damp-dry for optimal cleaning-do not introduce large amounts of water on the grout joints.

- ITTAL GROUT CLEANING (DURING INSTALLATION FOR THE SMALL WORK AREA)

 1. For best results, wait 10 minutes before beginning cleanup to allow the grout joint some time to firm up so it is not pulled out of the joint during cleanup process. Do not wait longer than 40 minutes.

 1. To clean, first soak sponge in cool clean water. Wring out most excess waters, then part the surface of the till with the chains psonge to lose the lim. Next, first the sponge in water a second time and supposed to the chain psonge in a light, circular motion to smooth joints and clean film from the tile. Avoid using excessive amounts of water on the grout joints.

 4. Turn songe over to a clean side and draw diagonally across tiles to remove any remaining film. Service that the control of the control of
- Isse: If excess water is used in the sponge during clean up, minor cracks or pinholes can develop. If the grout is over-worked, it may appear to shrink down into joint. Should any of these things occur, simply apply a second coat to the affected areas. You must allow your initial application to cure for 24 hours prior to your second application. Restrict traffic on the finished grout for 24 hours (light foot traffic) and 72 hours for heavy traffic and pets.
- If a haze exists on the next day after installation, simply wipe it clean with a damp sponge.
 If a sponge is not effective, use a soft, white scrub pad in a circular motion to remove the grout haze from the face of the tile. A small amount of mild detergent in warm water should be used also.
 Use a damp, clean sponge or white towel to wipe off the remaining grout haze, rinsing the sponge/ towel often and changing the water often.

- FTER INSTALLATION

 1. Be sure tiles are set, flat and have tight edges. Re-roll the entire installation, along the length and with of the tiles with a 3-section 100 lb. roller to ensure all tiles are properly set into the adhesive. If necessary, weigh down any loose tiles overnight to ensure bond. Adhesive can be carefully reactivated using a heat gun after drings to re-install tiles.

 2. Clean adhesive residue from the face of the flooring following these directions:

 a. Wet adhesive residue from the face of the flooring following these directions:

 a. Wet adhesive residue from the face of the flooring following these directions:

 a. Wet adhesive residue of man flexing failure.

 b. Do not business of tiles and lead or an adhesion failure.

 b. Dry adhesive residue or an adhesion failure.

 c. Do not pasmight manner. Carefully follow the directions on the mineral spirits container. Please note: Improper use of any chemical can harm the finish of the LVT/LVP aroduct.

 C. Do not put soapy water. Immeral spirits or detaunted alchold and can the container label.

 d. If working with epony or urethane adhesives you make an the specific of the the water of the desired manufacturer is structions, which can be generally found on the container label.

 8. Novalis adhesives should be cured according to the following updelines:

 8. For a wet-set installation.

 - d. If working with epoxy or urethane adhesives you must clean these up while wet according to the otherwise manufacturer's instructions, which can be generally found on the container label.

 3. Novalls achievies should be cured according to the following guidelines:

 a. For a west-er installation.

 i. It is important to blow its achieve to set before accepting any foot traffic for a minimum.

 ii. In the important of blows. Failure to alther to this guideline may routed in shifting of tiles, cooring of adhesive through seams or permanent indentations.

 iii. Do not allow heavy loads, rolling traffic, furniture or fixtures on the floor for a minimum of all about a ster installation.

 iii. Novalis is not responsible nor will warrant our products in the event that this is not properly followed.

 b. For a dry-set or pressure sensitive application of not allow foot traffic on the floor for 12 hours.

 c. Proper rolling of floors during and after installation is a must on Luxury Vinyl products. Use a 3 -section, 100 pound roller to set flooring into the adhesives.

 3. For additions.

 3. For additional state of the state of the

ASTM F 2422 Standard Flactice for instantation and Preparation of ASTM F 2170 Standard Test Method for Determining Relative Hur ACI 302 Guide for Concrete Floor and Slab Construction Accredited Organizations for Standard Practices

ASTM F 1482 Standard Practice for In

Standards for Installation

7011 S. 19th Street

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oma, WA 98466-5333 www.rfci.org

STAINMASTER

NOMLIS

- May 2014
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- wards that exit. Only spread enough adhesive that can be utilized before the initial set or tack. See adhesive container label for approximate times and further instruc

- GENERAL GUIDELINES

 This information provides general guidelines for the preparation and installation of you vinyl flooring product. All instructions and recommendations should be followed for an ideal installation.

 I instal STAIMMASTER* Premier "Luxury Vinyl only after the jobistic has been cleaned and cleared of
 debris that could potentially damage a finished plank installation.

 I inspect your shipment of Novalis products to ensure that all cartons are of the same lot / manufacturing run. Contact your Distributor with any discrepancies or assistance with locating this information.

 To minimize shade evairation during the installation of STAINMASTER* Premier** Luxury Vinyl, mix and
 install planks from several different cartons.

 A. All subfloor/underlayment patching must be done with a non-shrinking, water-resistant Portland cement patching compound.
- Approved Substrates
 The following are approved substrates for installation of STAINMASTER* Premier** Luxury Vinyl . See the next section for proper testing and substrate preparation prior to installing your Novalis floorcovering.

 All substrates regardless of composition <u>must</u> be smooth and flat to within 3/16" (4.76mm) or achieve an *F32" rating by use of mechanical grinding/sanding or suitable Portland cement-based patching and levelling compounds.

 APA registered underlayment, sanded face exterior grade with minimum rating of C-C plugged
 - APA registered exterior grade plywood sanded face with ratings as 1011-12-12. C.C. plugged face.

 C.C. plugged face.

 Single layer Sturd-1-Floor rated panels (minimum 23/32" thickness) with sanded face. Check for jobsite damage before using as undersyment if panels were exposed to construction traffic or weather prior to installation.

 APA Rated undersyment veneer panels.

 Properly prepared and well bonded existing resilient floor covering.

 Cernal Trainza, Depoy terrazo, cernant tile, marble must be properly prepared.

 Certain metal floors see adhesive for proper types and preparation.

 Old adhesive residence.

 Radiunt heated floors where heat does not exceed 85°F (29°C). ered exterior grade plywood sanded face with ratings as follows: APA A-B, A-C, B-B, B-C.

 - - vi. Expansion joints, isolation joints, control joints or other moving joints in the co slab shall not be filled with patching compound or covered with resilient floori Subflood
 Shall not be filled with patching compound or covered with register flooring.

 Subflood
 Shall not be filled with patching compound or covered with register flooring.

 A combination of wood subfloor and panel underlayment construction shall be a minimum of 1 in total thickness.

 There shall be at least 18' of well-ventilated air space beneath all wood subfloors. Crawl space shall be insulated and protected by a suitable vapor barrier.

 Wood subfloors installed directly on concrete or over "sleeper" joist systems are not acceptable for use under Novalis Resilient Flooring.

 Panels designed as suitable underlayment shall be at a minimum:

 1. Minimum X" in thickness

 II. Dimensionally stable

 III. Fully sanded face to eliminate grain texture or show through

 IV. Have a written manufacturer's warranty and installation instructions

 V. 86 free of substances such sink, fillers and reisin which may lead to staining of the resilient flooring

 VI. Have all knots, voids and defects properly plugged and sanded

 Panels shall be installed according to manufacturer's instructions regarding stapling pattern, sanding and filling of joints, and according to manufacturer's instructions regarding stapling pattern, sanding and filling of joints, and accident arivinger or "Callego"

 II. Grain or texture telegraphing

 II. Disconstruction of finished flooring due to materials used for filling of voids and defects

 III. Disconstruction of finished flooring due to materials used for filling of voids and defects

 - Flooring is Installed.

 **Heaviese

 Adhesive residue shall be properly prepared prior to the installation of STAINMASTER* Premier** Louvary Vinyf Flooring, It is recommended that mechanical scraping or grinding be used as a primary means of removing old adhesive residue.

 **Residues include, but are not limited to carept, vinyf, VCT, and or wood flooring adhesives.

 **Black cutback/asphalt adhesives shall be scraped by hand to remove any loose patches, trower indiges and puddless on that only at this residue layer remains. This layer shall then be properly covered using a Portland based patching compound properly mixed with the manufacturer's recommended instructurer's recommended instructured in the control of the c
 - Other substrates

 a. Cement terrazzo, epoxy terrazzo flooring, stained or painted concrete and metal floors may suitable for installation and need to be properly prepared for adhesion. Most will need to be prepared with a suitable Portland-based cement patching compound, see manufacturer's re ommendations for use and preparation of subfloor. Contact Novalis Technical Support at 1: 886-NOVALIS for these installations.

 b. Ceramic, porcelain, marble and granite tiles are suitable as substrates when the following co
 - compound manufacturer's recommendations for surface preparation and application of product.

 c. The following are not suitable substrates for installation of STAINMASTER* Premier** Luxury Vimy Flooring: rubber, cork, or asphalt tiles; and any other material covered in the sections above and listed as unsuitable.

 d. Unsuitable substrates should be covered with an approved %* wood underlayment or suitable Portland-based cement leveler or patching compound. Always follow the manufacturer's recommended practices when covering an existing substrate.

 - the strain with their products.

 Determine the center of the room by measuring each end wall and marking the center of the wall. Chalk line across the points and measure to determine the center point. As a right angle to the chalk line, using the center point, chalk another line out to the other walls. To minimize shade variations and to give the floor a more natural look, mix tiles from several different cartons when installing.

 As with any tile installation, look is desired. The appropriate spacers should be used in between tile joints during the dry layout phase.

 Dry lay a section of tile from the center line to one wall to determine that then 6° adjust the first row at the center line to make the centerline match the centerline of the row of tiles. Avoid small pieces of tiles in borders and the general layout of the pattern.

 Balliation of flooring and proper trowel notch. Trowel notch is dependent on the type of subfiloor the pattern.

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 Balliation of flooring the proper trowel notch. Trowel notch is dependent on the type of subfiloor substrates.

 I To determine if a substrate is porous, sprinkle a few drops of water in the prepared substrate. If the water is absorbed with 2 minutes the substrate should be considered to be prorus.

 It is examples of porous substrate is porous, sprinkle a few drops of water in the prepared substrate. If the water is absorbed with 2 minutes the substrate should be considered to be prorus.

 It is recommended that you not work on the feeshly installed flooring. This means that you will have to start from the wall or area opposite of an exit, and work to-
 - Premier[™] luxury vinyl