

Manufacturer:

NUE TILE LLC

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Tile Floor Membrane Underlayment: Architect & Engineering Spec Sheet

Tile Management System Products:

DemoFlex,

DemoFlex Adhesive,

DemoFlex Sound

DemoFlex™ Adhesive

150 SQ. FT. Coverage per Adhesive Spray Can

MVER up to 8 lbs/1,000 square feet per 24 hours

0.020 g/ml VOC content

98% RH/11pH

For Interior, Horizontal, non-Submerged Use Only

Product Description:

A 2-part crack isolation membrane underlayment designed to be used under ceramic tile floor installations in interior environments. The system consists of DemoFlex Adhesive and your choice of DemoFlex Membrane Underlayment. DemoFlex withstands Heavy Traffic load classifications in the 'Robinson' C627 along with cracked tile suppression exceeding 1/8" for the life of the floor.

Only when a force is applied to remove or repair the floor, the DemoFlex Underlayment, Mortar and Tile all come up intact with virtually no silica dust released. DemoFlex offers lifetime durability and crack suppression with 10X faster demo. Employers can avoid the extra costs and hassels associated with the control methods required by OSHA's Crystalline Silica Exposure regulations. The system is waterproof, but is not intended to be fully submersed.

Suitable Substrates:

- Concrete Slabs
- Radiant Heated Floors
- Sealed Gypsum Substrates (No Extra Primers)
- Ceramic Tile, Natural Stone, Terrazzo (No Scarifying)
- Polished Concrete (No Scarifying)
- Exterior Grade Plywood
- Cement Mortar Beds
- Self-Leveling and Patching/Leveling Compounds
- Tile Floor Backer-Boards
- Existing Vinyl Sheet, VCT & VAT

DemoFlex™

Membrane Size	Large Format	Small Format
Length x Width	40" x 90'	20" x 90'
Thickness	0.5mm (0.02")	0.5mm (0.02")
SQ. FT. per Roll	300	150
Moisture Vapor T.R.	0.4 perm	0.4 perm
'Robinson' C627	Extra Heavy	Extra Heavy
Crack-Suppression	> 1/8"	> 1/8"

DemoFlex™ Sound

Membrane Size	Roll
Length x Width	36" x 33.3'
Thickness	1.5mm (0.06")
SQ. FT. per Roll	100
Moisture Vapor T.R.	0.1 perm
'Robinson' C627	Heavy
Crack-Suppression	> 1/8"

Advantages:

- 10X Faster Demo than traditional installation methods
- **3:1 Savings To Cost Ratio** with benefit of use in SQ FT
- Tile as permanent as the user requires it to be
- Solid, secure bonding to almost any substrate
- Easy installation & set tile immediately following DemoFlex
- Extremely Limited Silica Exposure During Tile Floor Demo
- Cost-Effective Crack-Suppression & Sound Deadening
- No damage to radiant heating systems during replacement
- Tile installation mistakes & defects are resolved quickly

Storage & Shelf-Life:

Adhesive must be stored at minimum 50°F and maximum 120°F at all times. Adhesive must not be exposed to freezing temperatures. Adhesive must be maintained at a minimum temperature of 68°F for a period of 24 hours prior to use. The Product may be stored for a period of up to 3 years from date of manufacture prior to use.

Technical Standards:

ASTM: C627, E96, F2170, F1869, F710 – **ANSI:** A118.12, A118.10

ΔIIC: ASTM E2179, STC: ASTM E90 – **IIC:** ASTM E492.

General Surface Preparation (see full instructions):

All substrates must be structurally sound, clean & free of dirt, oil, grease, curing compounds, paint, laitance or efflorescence. Make rough or uneven surfaces smooth to a wood float or better finish not with asphalt based products. Fill coat any radiant heat mat with mortar. Due to shrinkage, apply a second, thin skim coat allowing proper curing time.

Concrete Surface Preparation:

To remove any bond-inhibiting materials, clean the surface by mechanically grinding to obtain an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) #2. If concrete requires further grinding to clean the surface causing a higher CSP, smooth the surface using slurry bond coat or self leveling underlayment. Maintain expansion joints.

Limited Warranty (see full warranty for details):

DemoFlex will be free from Manufacturing Defects and will not break down, deteriorate or delaminate due to adhesive bond failure under normal usage for a period of time, not to exceed twenty five (25) years from date of sale, or thin set warranty language whichever is less, that is used to bond the ceramic tile or stone to the DemoFlex membrane, provided that only modified mortars are used and that the substrate upon which the adhesive is applied complies with all of the following conditions at the time of installation and for the entire term of the Warranty, along with meeting specific industry standards as set forth by the TCNA and the ANSI for the installation of ceramic tile and stone.

- Proper expansion & movement joints must be maintained.
1. Does not exceed a Relative Humidity (RH%) of 90% when tested in accordance with most current ASTM F2170; AND
 2. Moisture vapor emissions (MVER) do not exceed 8 lbs/1000 square feet per 24 hours when tested with prepackaged Calcium Chloride crystal tests in accordance with the most current ASTM F1869; AND
 3. The pH does not exceed 12 when tested in accordance with the most current ASTM F710; AND
 4. If the substrate fails to meet the moisture and pH requirements as stated above; AND
 5. If your mortar of choice fails to bond to the ceramic tile/stone, which includes but is not limited to use of beating block & rubber mallet to properly imbed the tile into the thinset, the warranty from NUE TILE shall be void. Moisture and pH testing can only indicate the conditions present at the time of the test and cannot predict any future changes...

Installation Overview (see full instructions):

Prior to installation: complete all floor leveling and regular tile preparation procedures. Thoroughly clean substrate to be free from residue & dirt including vacuuming/damp mop if needed.

Spray DemoFlex Adhesive onto tile appropriate substrate. For speed and ease of installation, it is recommended to begin applying DemoFlex Adhesive around the perimeter of the area starting at the furthest point, working your way out of the room. Let Adhesive activate and become tacky for 20-40 minutes until adhesive does not transfer to skin (adh. working time of 3 hours).

Apply DemoFlex Underlayment directly into DemoFlex Adhesive and thoroughly press-in entire surface by hand/foot or with a 35lb roller to ensure proper contact with Adhesive. Seams: apply DemoFlex Caulk or DemoFlex Tape across seam spanning 1" across each seam of the DemoFlex Underlayment. When using 'DemoFlex Sound' Membrane, to isolate wall vibrations from the floor installation, wrap the Membrane up the wall 2-3" and adhere using DemoFlex Adhesive or a quality caulk or cove base adhesive. Fill cavities around pipes that run through floor with pieces of DemoFlex & seal with silicone caulk.

DemoFlex is not intended to be left in place for extended periods of time prior to installation of the mortar, tile or stone and grout. Use only polymer modified mortars (A118.4 or greater) over DemoFlex. Fast-Set mortars (A118.4F or greater) and mortars that do not require air to cure are recommended over DemoFlex for the reduced curing time. Apply 'modified' mortar then tile and grout immediately, per TCNA Handbook standards.

Limitations (see full warranty for details):

- Not for use over hardwood surfaces, particle board, luan, interior glue plywood, OSB, masonite, mineral oils or solvents.
- The installation must not exceed a Relative Humidity (RH%) of 90% in accordance with the most current ASTM F2170
- Moisture vapor emissions (MVER) do not exceed 8 lbs/1000 square feet per 24 hours tested in accordance with the most current ASTM F1869; AND
- DemoFlex is not intended for use in fully submersed areas such as swimming pools and showers; AND
- If your mortar of choice fails to bond to the ceramic tile/stone, the warranty from NUE Tile shall be void.
- NUE TILE will pay for the labor & materials used in the **replacement or repair of the affected areas** up to an amount not exceeding the price paid by the customer.