

Tile and Stone

UX 500 SAFEGUARD

High-Tech, Fiber-Reinforced Uncoupling Membrane

PRODUCT DESCRIPTION:

UZIN UX 500 SafeGuard® is a crack-bridging uncoupling and waterproofing membrane designed for substrates in interior areas and suitable for new construction or remodel projects. The unique manufacturing process, combined with high-tech fibers, ensures the membrane lays flat and provides superior mortar adhesion.

SUITABLE FOR:

- ▶ Tile and stone applications in interior wet and dry areas
- ▶ Over UZIN priming and surface preparation systems
- ▶ Single-layer tongue-and-groove plywood subfloors 3/4" (19 mm) or thicker on joists up to 19.2" (49 cm) O.C., eliminating backerboards*
- ▶ Concrete and gypsum substrates to isolate the tile from the floor assembly
- ▶ Young concrete substrates once walkable*
- ▶ Radiant heat floor applications
- ▶ Residential, commercial, and industrial applications
Compatible with UZIN CX 15, 20, 30, 33, and 38 cement-based tile-setting mortars, as well as UZIN TR 400 resin-based setting mortar*
- ▶ For topical waterproof integrity, UZIN WP Seam Tape bonded with UZIN CX 15, 20, 30, 33, and 38 or UZIN HS 200 is recommended for seams and perimeter details*
- ▶ Meets LEED requirements in IEQ credit (4.1) Low Emitting Materials – Adhesives and Sealants (LEED v4)

* See Product Data Sheet Important Notes



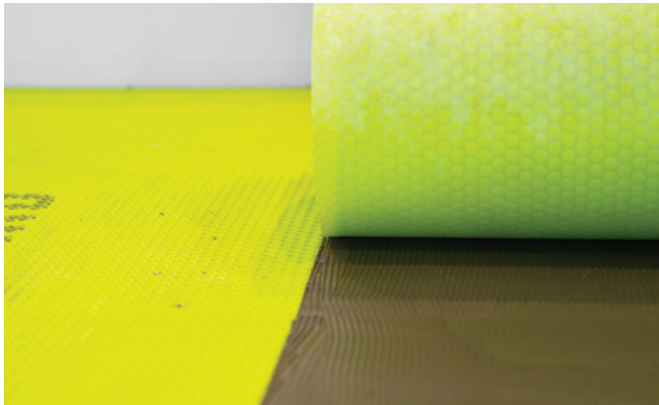
FEATURES AND BENEFITS:

- ▶ Installer-Friendly - Extremely lightweight, easy to carry, fit, & cut
- ▶ No Memory Effect - Rolls out flat immediately
- ▶ High-Tech Surface - Polyethylene core with high-tech fibers on top for superior bond to thin-set
- ▶ Fast-Track Installation - Can be installed over young concrete & gypsum with tile install on membrane immediately
- ▶ Underlayment Grade - Replaces traditional tile backerboard over single layer plywood or OSB
- ▶ High Compressive Strength and Load Displacement - Meets ASTM 627 Extra Heavy
- ▶ Waterproof and Vapor Management - Allows vapor to equalize from the underside, but waterproof from the top when seams & perimeter are treated

TECHNICAL DATA:

Packaging	39.3" x 98.4' (1 x 30 m) 323 sf roll
Storage	48 months
Application temperature	40 – 90°F (4 – 32°C)
Ready for foot traffic	Tile bond to membrane (approx.): 16 hours with CX 15 and 20 12 hours with 30 and 38 2.5 hours with CX 33
Ready for covering	Time before tiling Immediately after placement
Thickness	1/8" (3 mm)
Thermal resistance	In-service temperature range is -40 – 194°F (-35 – 90°C)
Fire reaction	Will not contribute to flame spread when installed
Weight	35 lbs (16 kg) per roll

* At 70 °F (21 °C) and 65% relative humidity.



PRODUCT PROPERTIES:

UZIN UX 500 SafeGuard® is a crack-bridging uncoupling and waterproofing membrane for substrates in interior areas. It can be used in new construction and remodel projects. UZIN UX 500 SafeGuard® minimum tile size is: 1"x1" for residential applications and 2"x2" for light commercial applications. The unique manufacturing process in combination with high-tech fibers ensures the membrane lays flat and provides superior adhesion of the mortar to the membrane.

SUBSTRATE PREPARATION:

- ▶ All substrates should be structurally sound, stable, dry, clean and free of any substance or condition that may reduce or prevent adhesion.
- ▶ For applications involving gypsum substrates and highly porous concrete substrates, it is recommended to prime with UZIN PE 260 or UZIN PE 360 Plus. For applications involving existing floor coverings, prime with UZIN PE 280. See applicable product data sheets for complete information.

APPLICATION:

1. Roll material out and trim to fit using a razor knife or scissors. Allow for approximately 1/8" (3mm) - 1/4" gap from all walls and columns.
2. Mix and apply an UZIN thin-set mortar such as CX 15, 20, 30, 33, 38 or TR 400 with a 3/16" x 1/4" (5mm x 6mm) V notch or 11/64" x 11/64" (4.5mm x 4.5mm) square notch trowel. Apply the mortar to the substrate with the flat side of the trowel first (key coat). Then comb with the notched side to achieve uniform distribution of mortar in one direction. Avoid troweling in random "swirl" patterns. (See applicable product information for water ratios and product use).
3. Roll UZIN UX 500 SafeGuard® out and into the wet mortar and lightly butt seams. Then using a trowel, float or floor covering roller (50 lbs or less), compact the material into the wet mortar to achieve 100% backing transfer. Care should be taken to install the material into wet mortar to achieve this. Temperature and substrate porosity are variables that affect this. If installation materials skin prematurely, remove mortar and re-apply fresh material to ensure positive transfer and void free installation.
4. Once UZIN UX 500 SafeGuard® has been installed, tile can be installed immediately on top of the membrane.
5. When used as interior waterproofing, it must be detailed as a continuous waterproof system:
 - a.) Fill and trowel seams at every joint with UZIN Hydrostop waterproofing seam tape using a compatible UZIN thin-set mortar
 - b.) Install preformed UZIN Hydrostop inside and outside corners where needed.
 - c.) Floor-wall transitions: Use UZIN Hydrostop sealing tape to connect the floor membrane to the wall. Using UZIN Hydrostop seam tape extending a minimum 2" up the wall and 2" onto the floor.

d.) Penetrations and drains: Use UZIN Hydrostop Pipe Collars for pipe penetrations or run the UZIN UX 500 SafeGuard® to the penetration and fill any gaps with 100% silicone sealant. Make connection between plumbing fixture and pipe gap with 100% silicone sealant or alternatively use UZIN HS 100 or HS 200 installed per data sheet.

6. For tile installation, using a recommended notch trowel appropriate for achieving proper coverage based on the size of tile being installed, apply the mortar to the membrane with the flat side of the trowel first (key coat). Pull the mortar one direction then back the other way to completely fill cups. Then comb with the notched side to achieve uniform distribution of mortar in one direction. Avoid troweling in random "swirl" patterns.
 - a.) Select the appropriate notch trowel for your application, following directional troweling.
 - b.) Back butter the tile using the flat side of the trowel as needed and press the tile into the fresh mortar, sliding the tile against the trowel notches to collapse the ridges.
 - c.) Periodically lift tiles to confirm adequate coverage.
 - i.) 80% interior
 - ii.) 95% for wet areas
7. Movement Joints
 - a.) Honor all structural and expansion joints through the tile assembly.
 - b.) Provide perimeter and intermediate movement joints per TCNA EJ171 or local standards.
 - c.) UZIN UX 500 SafeGuard® can span control or saw cut joints in the substrate allowing for easy movement joint placement.
 - d.) Fill movement joints with flexible sealant or appropriate profiles.
8. Grouting after the mortar is cured (per the mortar data sheet), grout joints with compatible UZIN grout.

IMPORTANT NOTES:

- ▶ Tile shall be installed in strict accordance with ANSI A108.5, TCNA (USA) and TTMAC (Canada) standards. If you are not familiar with industry standards, please contact these organizations. Tile failures occur and warranties are void when industry standards are not respected
- ▶ ASTM C627 Robinson:
 - 14 cycles "Extra Heavy" rating when bonded over concrete
 - 14 cycles "Extra Heavy" rating over single layer 3/4" or greater plywood subfloor with joists 19.2" OC
- ▶ Provide for expansion and control joints as per TCNA Detail EJ171 (USA) or TTMAC Detail 301MJ (Canada).
- ▶ For single layer plywood or OSB installations - the substrate must meet deflection requirements of ANSI A108.01 (L/360 for tile or L/720 for stone).
- ▶ Self-Leveling over UZIN UX500 SafeGuard to be done on a case by case basis using NC 150F poured above the cups 1/4" (contact local UZIN technical rep).
- ▶ UZIN UX500 SafeGuard needs to be protected to ensure material is kept clean and free from contamination, cuts, pilling and damage.

- For technical assistance that pertains to this product, please contact UZIN's technical service department at 1-866-505-4810. We are here to help you achieve the best work possible.

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Precautions: Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Safety Data Sheet (SDS) available at uzin.com.

DISPOSAL:

For disposal of products, follow the applicable laws and regulations. Where possible, collect product residues and re-use. Do not allow the material to get into sewers, waterways or unlined ground surfaces. Empty packaging may contain product residue.