

wedi® Subliner Dry | Waterproofing and Crack-bridging Membrane

General Product Description

Waterproof, thin-layer, crack isolating sealing web made from highly tear-resistant polyethylene film, which offers optimum connection to tile laying materials thanks to its dual-sided special fleece lamination.

For quick sealing measures for fixed-date building sites in combination with ceramic tiles and slabs as well as with natural cast tiles for indoor wall and floor areas.

Application Areas

Suitable for residential and commercial applications where waterproof substrate preparation using waterproofing according to ANSI A118.10-1999 is required including but not limited to:

- ✓ Exteriors
- ✓ Domestic interior bathrooms
- ✓ Hotel bathrooms
- ✓ Shower facilities
- ✓ Areas around swimming pools
- ✓ Commercial kitchens and laundries
- ✓ Steam rooms and refrigeration rooms
- ✓ Wood or concrete subfloors and walls/ceilings
- ✓ Areas requiring disabled access/barrier-free applications

Product Characteristics

- ✓ Waterproof
- ✓ Mold and mildew resistant
- ✓ Vapor barrier
- ✓ Flexible and crack-bridging/isolating
- ✓ High tear resistance
- ✓ Alkali resistant
- ✓ Non-aging
- ✓ Non-decomposable
- ✓ Short installation time
- ✓ Easy processing
- ✓ Low structural height
- ✓ Can be used with hot water under floor heating systems
- ✓ Low consumption of thinset mortar

General Limitations

- Some glass tiles may not be compatible with bonded waterproof membranes and/or may require special setting and grouting materials. Consult glass tile manufacturer and wedi® Technical Services.



- Gypsum-based solid backing panels shall be limited in use to residential steam showers.
- Do not use mastic adhesives for setting tile on wedi® systems in wet area applications.

Requirements On Floors

Wood and similar structural underlayments

General:

- Plywood or OSB and other similar subfloors must be clean, even and load bearing. Any leveling of the subfloor must be done prior to installing.
- Design wood floor areas over which tile is to be applied to have a deflection not greater than 1/360 of the span when measured under 300 lb. concentrated load (see ASTM C627). Follow IRC and ICC regulations and local building codes.
- Minimum subfloor thickness 5/8" tongue and groove with 1/8" gap between sheets.
- Contact wedi® Technical Services for wood floor applications exceeding floor truss/joist spacing of 16 o.c.
- All absorbing, mineral subfloors must be primed using deep penetrating primer. Prime smooth or non-absorbing subfloors, which are not to be removed, with self-etching primer.

16" (406 mm) o.c. joist spacing- single layer plywood or OSB subfloor:

- Design wood floor areas with maximum joist spacing 16" (406 mm) o.c. over which tile is to be applied to have a deflection not greater than 1/360 the span when measured under 300 lb. concentrated load (see ASTM C627). Follow IRC and ICC regulations and local building codes.
- Minimum subfloor thickness is 5/8" (16 mm) tongue and groove with 1/8" (3 mm) gap in between sheets.
- Minimum tile size 2" x 2" (50 mm x 50 mm).

Concrete Subfloors:

- Concrete and lightweight concrete at least 3 months old.
- Cracks must be securely filled.
- Evenness must be ensured, no laying on bowl-shaped subfloors.
- The residual humidity must not exceed the following values:
 - Cement screeds* 3.5 %
 - Calcium sulphate screeds* 0.5 %
 - Calcium sulphate screeds, heated* 0.3 %
 - Gypsum-bound plaster/underlayment (measured with CM device) 1.0 % (consider priming if recommended by manufacturer of underlayment)

* Note that wedi® Subliner Dry might trap rising moisture from unisolated concrete ground floors.

6. Press on the overlapping area with a trowel or rubber roller.
7. Remove any escaping mortar and air pockets. Cross joints should be avoided.
8. Apply a continuous 1/2" bead of wedi® joint sealant along all seams and spread flat with a putty knife over the joints.
9. In the area of thin bed drains, the web is cut out in the area of the drain opening. wedi® Subliner Dry web must be tightly sealed in the entire flange area up to the drain opening using wedi® joint sealant.
10. wedi® Subliner Dry must be separated over existing movement joints, building separation joints and edge connection joints and must be formed in overlapping pattern as outlined in steps 5/6/8. Use wedi® inside and outside sealing corner tapes where applicable.
11. Movement joints must be installed in subfloor according to building code requirements.

Requirements On Walls/Ceilings

- Substrate should be even, plumb, square and installed according to manufacturers recommendations.
- Provide insulation in wall and ceiling cavities to reduce moisture condensation on the tiled surface. Solid backing needed – gypsum wallboard, cementitious backer unit, fiber-cement underlayment, fiber-reinforced, water-resistant, gypsum backer board/underlayment, coated glass mat water-resistant gypsum backer board, concrete, masonry block. The substrate must be able to carry load of thin set mortar/membrane/surface finish material. Drywall backings should be primed prior to installation of thin set mortar and wedi® Subliner Dry application.

Installation On Floors

1. Lay out wedi® Subliner Dry and cut to size using a cutter or scissors.
2. Apply thinset mortar according to ANSI A118.4-1999 to the prepared subfloor using a 1/8" x 1/8" or 1/4" x 1/4" notch trowel.
3. Insert wedi® Subliner Dry with the printed side facing upwards and press on with a rubber roller or wooden float.
4. The widths must overlap 2" at joints/transitions.
5. Apply a bed of thinset mortar according to ANSI A118.4-1999 with the flat side of the trowel onto the lower mat joint connection area.

Setting Tile On wedi® Subliner Dry/Floors

1. The thinset mortar underneath the wedi® Subliner Dry must have hardened, otherwise unevenness may be caused when the floor is walked on.
2. For tile laying, hydraulically curing thinset mortar according to ANSI A118.4-1999 is applied to wedi® Subliner Dry and the tiles are then mainly embedded over the full surface.
3. For coverings subject to chemical stress, suitable reaction resin mortars and grout joint fillers must be used.
4. Grout may be installed 24-48 hours after tile installation (depending on climatic conditions, tile size, grout choice and thinset mortar manufacturers recommendations).
5. Expansion joints must be installed according to specifications and building code requirements.

Installation On Walls

1. Lay out wedi® Subliner Dry and cut to size using a cutter or scissors.
2. Apply thinset mortar according to ANSI A118.4-1999 to the prepared wall substrate using a 1/8" x 1/8" or 1/4" x 1/4" notch trowel.

3. Insert wedi® Subliner Dry with the printed side facing upwards and press on with a rubber roller or wooden float.
4. The fleece mats must overlap 2" at all joints/transitions.
5. Apply a bed of thinset mortar according to ANSI A118.4-1999 with the flat side of the trowel onto the lower mat connection area.
6. Floors have to be covered prior to walls being covered and will be overlapping onto floor area.
7. Press on the overlapping area with a trowel or rubber roller.
8. Remove any escaping mortar and air pockets. Cross joints should be avoided.
9. Apply a continuous 1/2" bead of wedi® joint sealant along all seams and spread flat with a putty knife.
10. All openings in the wedi® Subliner Dry (i.e. shower head) have to be sealed with wedi® joint sealant.

Setting Tile On wedi® Subliner Dry/Floors and Walls/Ceilings

1. On a floor, the thinset mortar underneath the wedi® Subliner Dry must have hardened, otherwise unevenness may be caused when the floor is walked on.
2. On walls, tile installation may proceed once wedi® joint sealant is tack free (average 30 minutes).
3. For tile laying, hydraulically curing thinset mortar according to ANSI A118.4-1999 is applied to wedi® Subliner Dry and the tiles are then mainly embedded over the full surface. For coverings subject to chemical stress, suitable reaction resin mortars and grout joint fillers must be used. Especially dense and smooth tile and stone with low absorbance should be installed with modified mortars according to ANSI A118.4-1999.
4. Grout may be installed 24-48 hours after tile installation (depending on climatic conditions). Expansion joints must be installed according to industry standards and local building codes.

Note On Ceilings:

When wedi® Subliner Dry and tile are installed on the ceiling, the solid backing and fasteners must be able to support the load of the tile and setting/grouting materials.

Physical Properties

Material Composition	Dual-sided fleece laminated polyethylene film
Web Color Top Side	Grey sheathed
Web Width	39 in./1 m
Web Length	16 ft./5 m and 98 ft./30 m
Web Thickness	23 mil
Weight	.06 lb/sq. ft./298 g/m ²
Processing Temperature	+5°C to +30°C/41°F to 86°F
Temperature Resistance	-30°C to +90°C/-22°F to 194° F
Waterproof ANSI A118.10-1999	Passed
Perm Rating ASTM E 96	.45
Robinson Floor Test ASTM C627	Rating "EXTRA HEAVY" for food, plants, dairies, breweries, shopping malls, stores, commercial kitchens, work areas, laboratories, auto showrooms and service areas, and shipping/receiving*

*A modified thinset mortar according to ANSI A118.4-1999 has been used for best results.

wedi® Subliner Dry has been independently tested at the Tile Council of North America and found to meet or exceed the requirements of the American National Standard Specifications for Load Bearing, Bonded, Waterproof Membranes for Thinset Ceramic Tile and Dimensional Stone Installation ANSI A118.10-1999

Fungus and Micro Organism Resistance	Shall not support growth	Passed
Seam Strength ASTM D751	16 lbs/2" in width minimum	Passed (71 lbs)
Breaking Strength ASTM D751	170 PSI minimum	Passed 1637 PSI Longit./ 822 PSI Transverse
Dimensional Stability ASTM D1204	0.7% maximum length change	Passed
Waterproofness ASTM D4068	No moisture penetration	Passed
7 day Shear Strength ASTM C482	50 PSI	Passed (152 PSI)
7-day Water Immersion Shear Strength ASTM C482	50 PSI	Passed (127 PSI)
4-week Shear Strength ASTM C482	50 PSI	Passed (132 PSI)
12-week Shear Strength ASTM C482	50 PSI	Passed (72 PSI)
100 day-Water Immersion Shear Strength ASTM C482	50 PSI	Passed (117 PSI)

Packaging Unit

W x L – 39 in. x 16 ft. (1 m x 5 m) roll.

W x L – 39 in. x 98 ft. (1 m x 30 m) roll.

Storage

Store in a dry, cool place, storable in original packaging for at least 12 months. Do not permanently store above + 30°C/ 41°F.

Disposal

wedi® Subliner Dry is physiologically harmless. Disposal of the material does not involve any hazardous waste. Cutting residues and compounds of coating and wedi® Subliner Dry can be disposed of as building site waste.

Warranty

The technical information (and application instructions) is based on our experience and present knowledge. However, it is the responsibility of the user/buyer to make trials with the original substrates in order to verify the suitability of our products for the intended purpose, taking into consideration all application parameters. wedi's responsibility and liability with respect to defective products and/or work attaching thereto shall be confined solely to the replacement of the same. In addition, wedi® has the right to reimburse the buyer the purchase price paid with respect thereto rather than to replace the defective products.

MasterFormat™ 2004 Sections

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