

wedi® Subliner Flex | Tension Reducing Sheet Membrane

General Product Description

Tension reducing heavy-duty web made from a strong fabric sheathing, which offers optimum connection to tile laying materials thanks to its dual-sided special fleece lamination.

Application Areas

wedi® Subliner Flex serves as the underlayment and tension reduction between top coverings of ceramic tiles and natural stone and the subfloor in indoor applications. For all loadbearing subfloors and mixed subfloors such as e.g. cement floors, cement, anhydrite and cast asphalt screeds, old parquet floorings with good adhesion, cement, lime-cement and gypsum underlayments.

Product Characteristics

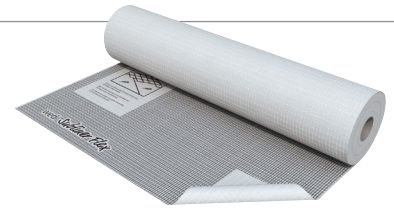
- ✓ Heavy-duty underlayment
- ✓ Tension-reducing base for ceramic and natural stone coverings
- ✓ Flexible
- ✓ High tear resistance
- ✓ Direct load removal on the subfloor
- ✓ Alkali resistant
- ✓ Non-aging
- ✓ Non-decomposable
- ✓ Short installation time
- ✓ Easy processing
- ✓ Can be used with hot water under floor heating systems
- ✓ Low structural height
- ✓ Low thinset mortar consumption

Requirements On Floors

Wood and similar structural underlayments

General:

- Plywood, OSB, or concrete subfloor must be clean, even, and load bearing.
- Any leveling of the subfloor must be done prior to installing.
- All absorbing, mineral subfloors must be primed using deep penetrating primer.
- Smooth non-absorbing subfloors, which are not to be removed, with self-etching primer.



- wedi® Subliner Flex does not replace the need for movement joints including perimeter joints and within the tiled finish surface. Install in accordance with industry standards and according to local building codes.

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 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 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).
- 19.2" (488 mm) o.c. joist spacing- single layer plywood or OSB subfloor.
- Design wood floor areas with maximum joist spacing 19.2" (488 mm) o.c. 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 is 3/4" (19 mm) tongue and groove with 1/8" (3 mm) gap in between sheets.
- Minimum tile size 2" x 2" (50 mm x 50 mm).

24" (610 mm) o.c. joist spacing- double layer plywood or OSB subfloor

- Design wood floor areas with maximum joist spacing 24" (610 mm) o.c. 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 is a double layer of 3/4" (19 mm) tongue and groove with 1/8" (3 mm) gap in between sheets.
- Minimum tile size 2" x 2" (50 mm x 50 mm).

Natural Stone Installation Over wedi® Subliner Flex

- Design wood floor areas with maximum joist spacing 19.2" (488 mm) o.c. over which tile is to be applied to have a deflection not greater than 1/720 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 is a double layer of 3/4" (19 mm) tongue and groove with 1/8" (3 mm) gap in between sheets.
- Use the appropriate setting material for certain moisture sensitive stones.

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 subfloor.
- 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 Flex might trap rising moisture from unisolated concrete ground floors.

Requirements On Walls/Ceilings

- Substrate should be even, plumb, square and installed according to manufacturers recommendations.
- Solid backing needed – gypsum wallboard, cementitious backer unit, fiber-cement underlayment, fiber-reinforced water-resistant gypsum backerboard/underlayment, coated glass mat water-resistant gypsum backerboard, concrete, masonry block. The substrate must be able to carry load of thinset mortar/membrane/surface finish material. Drywall backings should be primed prior to installation of thinset mortar and wedi® Subliner Flex application.

Installation On Floors

1. Lay out wedi® Subliner Flex 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 Flex with the printed side facing upwards and press on with a rubber roller or wooden float.

4. The sheets must be butted tightly at joints/transitions. Apply wedi® fiberglass mesh tape over joint.
5. Remove any escaping mortar and air pockets. Cross joints should be avoided.
6. Subliner Flex must be separated over existing movement joints, building separation joints and edge connection joints.
7. Movement joints must be installed in subfloor according to building code requirements.

Installation On Walls

1. Lay out wedi® Subliner Flex 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 Flex with the printed side facing upwards and press on with a rubber roller or wooden float.
4. The sheets must be butted tightly at joints/transitions. Apply wedi® fiberglass mesh tape over joint.
5. Remove any escaping mortar and air pockets. Cross joints should be avoided.

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

1. On a floor, the thinset mortar underneath the wedi® Subliner Flex must have hardened, otherwise unevenness may be caused when the floor is walked on.
2. On walls and floors, tile installation may proceed once the thinset mortar has hardened.
3. For tile laying, hydraulically curing thinset mortar according to ANSI A118.4-1999 is applied to wedi® Subliner Flex and the tiles are then embedded over the full surface.
4. 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 thinset mortars according to ANSI A118.4-1999.
5. Grout may be installed 24-48 hours after tile installation (depending on climatic conditions, tile size, grout choice [Grout – ANSI A118.3, A118.6, A118.7] and thinset manufacturers recommendations).
6. Expansion joints must be installed according to specifications and building code requirements.

Note On Ceilings:

When wedi® Subliner Flex 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, reinforced polypropylene fleece
Web Color Top Side	White
Web Width	39 in./1 m
Web Length	98 ft./30 m
Web Thickness	25 mil
Weight	.04 lb/sq. ft./220 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
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.

Packaging Unit

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 Flex is physiologically harmless. Disposal of the material does not involve any hazardous waste. Cutting residues and compounds of coating and wedi® Subliner Flex 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

Division 9/Finishes
09 31 00 Thinset Tiling

Please visit www.wedicorp.com for additional information.



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