

## wedi Subliner Flex

- Tile Underlayment Sheet  
Membrane for thinbed mortar installations
- Replacement for Cement Backer Board Underlayments on Floors
- For use with all types of cement based thinset mortars
- Naturally improving Crack Protection



### General product description

Tension-reducing, heavy-duty traffic tile underlayment made from a strong fabric sheathing, which offers optimum connection to tile laying materials thanks to its dual-sided special fleece lamination. It decouples tiled surface finish from the subfloor by eliminating direct contact between the tile and the subfloor through the tile adhesive application's separation through Subliner Flex.

Subliner Flex can protect against cracks without resulting in a floating floor application, such as may occur with nominal uncoupling membranes. The product offers a much more economical alternative to cement boards when applied on suitable floors due its fast installation compared to the heavy lifting and time consuming cutting of cement boards. In addition, unlike cement board it will not add further weight to a structural subfloor thus increasing overall stability. Unlike with nominal uncoupling membranes the thinset mortar consumption is low as Subliner Flex requires no cavities to be filled with mortar. This also allows Subliner Flex to provide a homogenous and even thinset mortar support and safe bond for the tile which will not be interrupted by high parts of any plastic structure . Subliner Flex can be used with any type of thinset mortar and will provide a thin profile installation. The product is not waterproof and mortar will therefore set up faster especially when dense and non – absorbing tile is installed. Installation tips and measuring and cutting gridlines are printed on its surface for fast working.

### Product features

- Thin profile tile underlayment installation
- Fully supports tile and stone while reinforcing thinset mortar installation against stresses due to lateral movement.
- 100% mold and mildew proof due to the product 's natural composition.
- Easy and clean to cut to size using a utility knife or scissors. Gridlines and installation tips printed on the product support efficient working.
- Faster and lighter installation when compared to cement backer board or uncoupling membranes
- No limitation to use of cement based thinset mortars and grouts. Product works perfectly with polyurethane or epoxy based grouts. Wedi recommends the use of modified thinset mortars of class ANSI 118.4 in most common applications and especially where non – absorbing and/ or smooth backing tile is used.

### Areas of application

- General tile underlayment use and tile protection over suitable subfloor construction in dry areas
- New Construction of Residential/Commercial use buildings
- Renovation in Residential/Commercial use buildings
- Over wooden or concrete substructures on floors

## Substrate/ Material Preparation and Requirements Before Installation

### General Limitations / Requirements (Concrete & Wood Subfloors)

- wedi Product Systems are only used for interior installations.
- Do not use as a wear surface or without tile / stone or other suitable coverings.
- Do not use organic mastic adhesives for setting tile on wedi systems in wet areas.
- Use only thinset mortar setting materials suitable for installation and adhesion to the specific substrate / subfloor type.
- Certain substrates such as gypsum based underlayments must be primed prior to thinset mortar attachment.
- Do not use where substrate is subject to excessive moisture and moisture content changes.
- Do not use over substrates including, but not limited to: particle board, luan, asbestos, plank, bamboo, hardwood, chipboard, Sponge backed Vinyl Tile / Flooring, Laminates, Fiberglass based surfaces, Metal or Steel surfaces. Do not install over any dimensionally unstable surfaces.  
Consult wedi for questions regarding specific approved installations over substrates not listed here.
- Subfloors must be clean, even, sufficiently loadbearing and dry (cured).
- Residues, oil, waxes, grease or other contaminants acting as possible bond breakers must be removed.
- Deflection of all subfloor installations must not exceed L/360 for ceramic tile installations and L/720 for dimensional stone installations over wedi product. under consideration of live and dead loads measured between joists.
- Any leveling of the subfloor must be done prior to installing wedi product and tile. Subfloor maximum variation from plane must not exceed ¼" in 10 ft.
- A wedi installation does not replace the need for Expansion and/ or Movement joint placement within a tile installation. Please follow recommendations found in the TCNA guidelines (Detail EJ171).
- All installations shall be in conformance with IRC for residential installations and IBC for commercial installations or applicable building codes in a region including the consideration of properly designed substrates and subfloors. All installations including the consideration of properly designed substrates and subfloors should be in compliance with current TCNA Handbook for Ceramic, Glass and Stone Tile Installation.  
wedi's technical recommendations supersede all requirements of IRC, IBC, IPC or TCNA where in conflict and exceeding minimum requirements established by the above mentioned institutions.
- Contact wedi for installation of tile or stone larger than 12 x 12 inches in size to learn more about the best

practices and requirements applied in such applications. Follow tile manufacturers' recommendations for appropriate flooring tile choice, setting materials and installation techniques.

### Installation over structural wooden surfaces – Flooring

- Plywood subfloor joist spacing must not exceed 16" o.c. with minimum thickness of T&G exterior grade plywood of 19/32 inch. Joist spacing in excess of 16" o.c. and up to 24: o.c. requires a double layer of ¾" Exterior Grade Plywood T&G subfloor sheets, glued and screwed.
- Plywood sheets must be installed with a 1/8" gap between sheets.
- Wood subfloors and structures attached to wooden subfloors must be kept dry and wood moisture content must be maintained at consistent service and use levels and must not exceed 15 %. Where constant moisture or vapor is present, ventilation must be installed to eliminate exposure of the wood structure from below the wedi product layer.

### Installation over concrete /cement surfaces – Flooring

- Concrete slabs or other structural cement based substrates must be fully cured (at least 28 days but up to 3 months for new Portland cement based concrete or lightweight concrete under normal conditions, mix ratio and ambient climate). Field verification of full cure (see moisture level indicators below) is necessary to determine a full cure.  
Residual humidity must not exceed the following value per each floor type when setting wedi product and / or tile coverings:  
Calcium Sulphate Screeds: 0.5 %  
Calcium Sulphate Screeds, heated: 0.3 %  
Cement Screeds: 3.5 %  
Gypsum based underlayment: 1 % or per manufacturer recommendation  
Anhydrite Screeds: 0.5 %  
Conduct measures with CM device.
- Concrete Subfloors must not be subject to hydrostatic water pressure.
- Existing cracks in subfloor must be filled and secured.
- Do not use over control and / or expansion joints subject to out-of plane movement or in- plane-movement.

## wedi Subliner Flex- Technical Properties

Subliner Flex Sheet Membrane	Dual-sided, reinforced Polypropylene Fleece
Fleece Colour	White/Dark Print
Membrane Width	39 inches ( 1 m)
Membrane Length	98 ft. ( 30 m)
Membrane Thickness	25 Mil
Weight	.04 lb/sq. ft. / 220 g/m2
Processing temperature	+5°C to +30°C/41°F to 86°F
Fungus & Microorganism Resistance	Passed; No Growth
Robinson Floor Test ASTM C627	Rated "Extra Heavy"
Certificate / Approval Product & Quality Management / Control	ISO 9001:2001

## The Product Range

wedi Subliner Flex Sheet Membrane	Dimensions	Unit	Item #
Subliner Flex Sheet Membrane	322 sq.ft. ; 39" x 98 ft.	1 roll	US5000006
wedi Subliner Flex Accessories	Dimensions	Unit	Item #
Self-adhesive Fiberglass Mesh Tape Alkali Resistant	5" x 82 ft.	1 pc	095225053

## Scope of Delivery

The wedi Subliner Sheet Membrane System is packaged in transparent sheeting. Accessories are packaged in protective bag units.

## Complementary Products to install wedi Subliner Flex

wedi Installation Accessories: wedi Wooden Float



## Warranty Information

Please refer to wedi's 10 year limited warranty on [www.wedicorp.com](http://www.wedicorp.com).

## MasterFormat™ 2004 Sections

Section 09305 Tile Setting Materials and Accessories

Section 09300 Tile

## Disposal

wedi Subliner Flex is physiologically harmless. Disposal of the material does not involve any hazardous waste. Material can be disposed of as building site waste.

## Storage

Store flat, cool and not exposed to weather. Store in original , protective packaging.

## Health & Safety information

Work appropriate work wear , gloves and safety glasses. Please consult the wedi Safety Data Sheet ( SDS) "wedi Fundo" on [www.wedicorp.com](http://www.wedicorp.com).

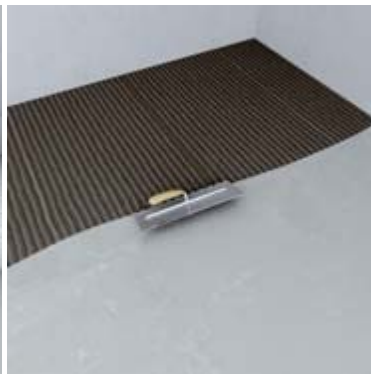
Information about finishing and application options for wedi products, technical recommendations or advice and other information provided by our employees (technical usage advice) is accurate to the best of our knowledge, but is non-binding and is given with the exclusion of any liability. It does not exempt our customers and their buyers from carrying out their own checks and trials on the suitability of the products for the intended processes and purposes.

## Installation of wedi Subliner Flex on Floors

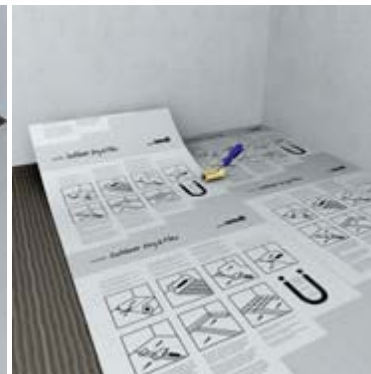
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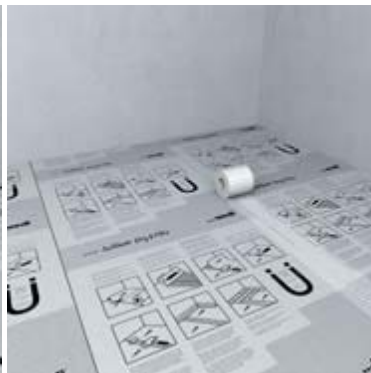
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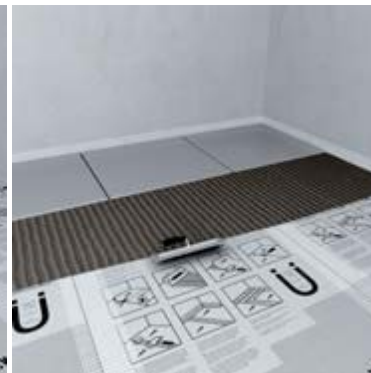
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1. Lay out wedi Subliner Flex and cut to size using a knife or scissors.
2. Apply thinset mortar to the prepared subfloor using a 1/8" x 1/8" or 1/4" x 1/4" notch trowel.
3. Insert wedi Subliner Flex with the printed side facing upward and press on with a rubber roller or wooden float.
4. The sheets are butted tightly at joints / transitions. Remove any escaping mortar and air pockets. Cross joints should be avoided. Cover all seams with wedi mesh tape.
5. Start setting tile once the thinset mortar under Subliner Flex has sufficiently cured.

