

Proteggga

Tile Underlay

Product properties

Uncoupling (separation)

Proteggga uncouples the floor covering from the substrate and prevents the transfer of stresses to the tiled surface. Thus, a crack caused by movement in the substrate is neutralized.

Cracks in the substrate are bridged and not transferred to the floor covering.

Material

Proteggga is a polypropylene membrane with a specially designed structure of square studs, each cut back in a dovetail configuration or undercut, with an anchoring fibre fabric laminated to its underside.

Proteggga is approximately 3 mm high.

Proteggga's distinctive red colour creates a useful contrasting background for installers to ensure full adhesive coverage.

Material Properties and Areas of Application

Proteggga is light weight, flexible, bridges cracks, does not rot and is highly resistant to solutions containing salts, acids, and alkalis, as well as many organic solvents, alcohol and oils. Its imperviousness to steam is very high. The material is safe for use in food and related industries. It must be verified that substrates, which are to be covered by Proteggga, are flat, clean, dry, structurally sound, adequately load bearing and free from material which may prevent bond of the adhesive. Contact inhibiting surfaces must be removed prior to the installation of Proteggga.

Sheet Thickness:	nominal 0.50 mm
Stud Height:	approx. 3 mm
Unit weight:	0.51kg/m ²
Working Temperature:	-10° to 60°C
Installation Temperature:	+10° to 40°C
Storage Temperature:	max. 45°C
Softening Temperature:	+160°C
Water Vapour resistance:	1500 m. ² s.GPa/kg or 280 m equivalent air layer
Air gap volume:	1.3 liter/m ²
Stud filling Volume:	1.6 liter/m ² tile adhesive
Life Expectancy:	50 years
Color:	Red

Note

The contact surface of Proteggga amounts to approximately 50% of the total surface. This may reduce the load-bearing capacity of constructions, which may be limiting for point loads.

Select appropriate tile thickness and size to distribute the necessary loads. The tile size should be at least 2" x 2" (50 x 50 mm). For the installation of moisture sensitive covering tile materials (natural stone, epoxy surface coverings) over substrates where moisture is to be expected, e.g. green concrete, Proteggga may be installed as a damp-proof membrane.

Note

Proteggga cannot rectify deficiencies in substrate, adhesive, tile or installation such as but not limited to: structurally unsound substrates, deflection limits, substrates with unsuitable surfaces for a particular installation such as but not limited to those that are not flat or prepared according to the recommendations of the Tile Council of America, adhesive manufacturer or tile manufacturer.

For any concerns prior to installation, please contact our technical department.

Refer to current Tile Council of America (TCA) Handbook for Ceramic Tile Installation for specific installation methods according to the proper ANSI A108 installation standard.

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Tile Underlay

Dimension

Proteggga TT 8000	1 x 25 meters: 25 m ² (3.28 X 82 feet: 269 ft. ²) approx.
Proteggga Joint Strip TT 8001	0.15 x 25 meters. (.5 x 82 feet) Damp proof joint strip made of polyethylene with fibre fabric laminated on both faces. Tile adhesive is anchored mechanically in the fibre structure, for sealing of joints in "dry room" applications

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Protegg

Tile Underlay

*Uncoupling membrane for
ceramic and natural stone tiles*

Protects against stress transfer to tile

Protects against dampness in substrate

*Ready-to-Tile immediately
after installation*



Protects tiles

Will not rot or crack

Easy to install

Saves time and money

Proteggga

Tile Underlay

Proteggga is a multi functional polypropylene membrane developed as an underlay for ceramic tiles and natural stone. It acts as an "uncoupling" membrane on all suitable substrates and as a water vapour pressure equalization membrane against dampness in the substrate.

Benefits

Uncoupling

Proteggga tile underlay provides a separation layer between tile and substrate, which prevents stress transfer to the tile surface. Neutralizes stresses caused by the deformation or shifting of the substrate. Bridges cracks that may develop in substrate.

Equalizes vapor pressure

Air channels beneath tile underlay remain open to allow moisture in substrate to evaporate.

Polypropylene material

Impermeable against other building chemicals.
Easier to install and lays out flatter than polyethylene.

Workability

Tough yet pliable to bend around corners and projections without breaking. Even in very low temperatures
Easy to install and cut with a knife or scissors.

Square cavities are deeper to provide a stronger adhesion and bond between tile underlay and tile.

Special support "O" studs on longitudinal edges of roll aid in properly placing joint strip where tile underlay butts to each other.

Suitable Substrates

Concrete

Concrete Screeds incorporating heating systems

Wood-Based plywood or OSB

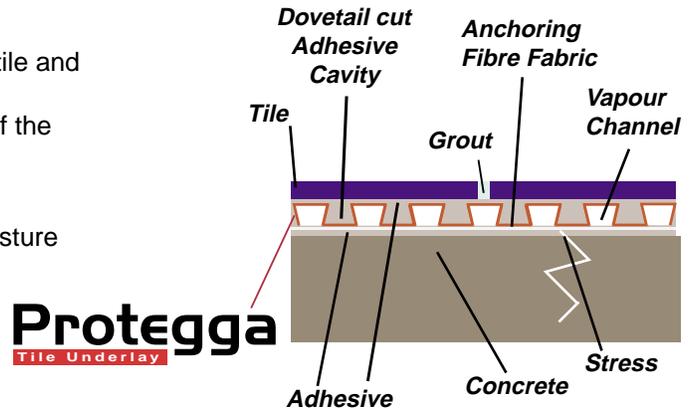
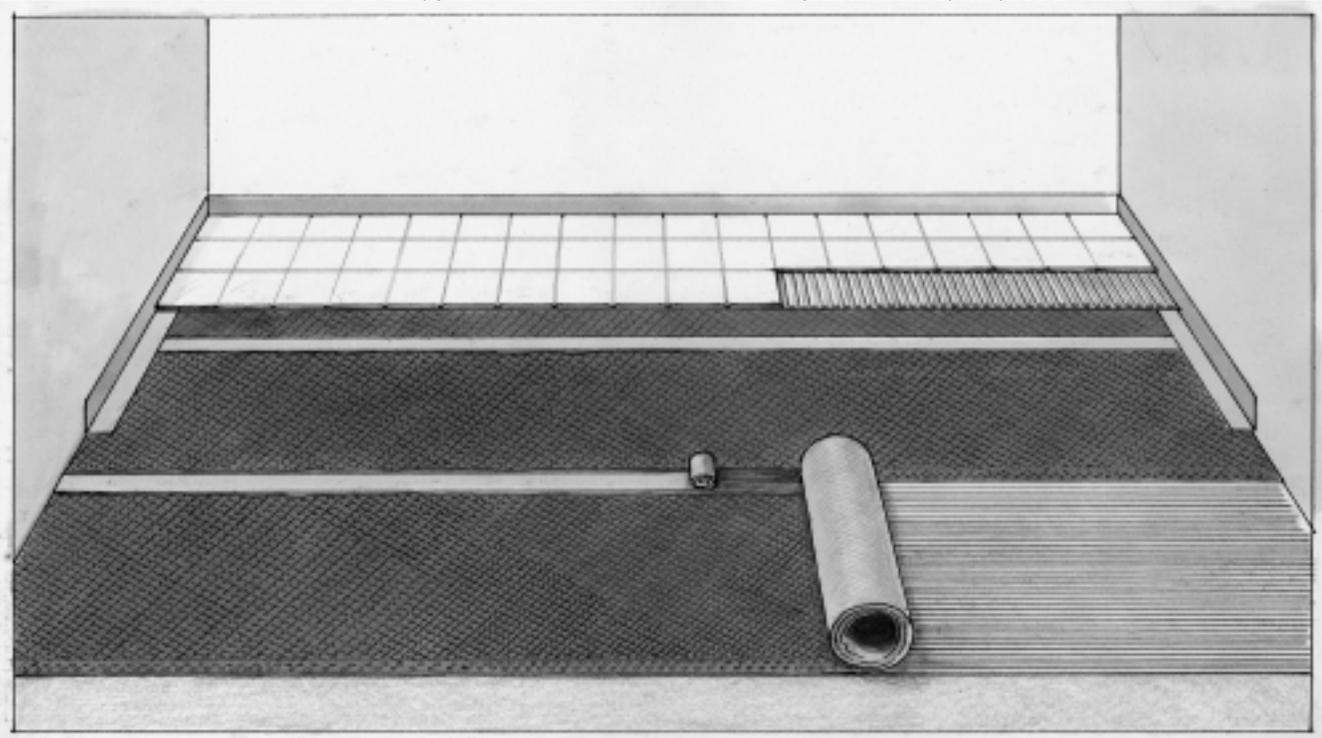
Synthetic flooring and surface coatings

Gypsum based (anhydrite) screeds

Bituminous Screed

** We do not recommend or warranty PROTEGGA for outdoor use as we feel that exterior installations pose numerous installation challenges. We recommend that PROTEGGA be used for interior installation in dry or limited water exposed areas only.

For all other substrates, please contact our technical department at (800) 565-6653



Refer to current Tile Council of America (TCA) Handbook for Ceramic Tile Installation for specific installation methods according to the proper ANSI A108 installation standard. Follow adhesive manufacturers instructions.

Installation instructions



Preparation

The substrate must be flat, clean, dry, structurally sound, adequately load bearing and free from material which may prevent bond of the adhesive. The tile adhesive must bond to the substrate, and anchor mechanically to the fibre fabric on the underside of Proteggga. The type of bonding adhesive used to apply Proteggga depends on the type of substrate.

For most substrates, a premium modified thin set mortar* is recommended. Apply the tile adhesive to the substrate using a 1/4" x 3/16" (6 x 4.5 mm) V-notched or 1/4" x 1/4" (6 x 6 mm) square notched trowel. Estimated thin set coverage is 150-200 sq. ft. per 50 lb. (22.7 kg) bag of mortar.



Installation

Measure and cut Proteggga to required size. Solidly embed the anchoring fibre fabric on the underside of Proteggga into the tile adhesive so that its entire surface is bonded. Work Proteggga into the adhesive, in one direction, using a float or flat trowel. Position Proteggga initially, and then readjust alignment by lifting one end, pulling lightly, and then placing the tensioned underlay more precisely. Installation is easier with two people working together. The edges of Proteggga rolls are cut to fit and placed edge to edge. Observe the open time of adhesive.



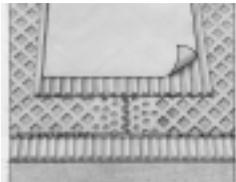
Joints

For potentially high moisture applications, immediately after the installation of Proteggga, the joints are sealed with a joint strip (Proteggga Joint strip), using the thin-bed method. It is advisable to apply the tile adhesive in a single process using a 1/4" x 1/4" (6 x 6 mm) notched trowel. Install Proteggga Joint strip ensuring full coverage of adhesive between the surfaces of Proteggga and Proteggga Joint strip. Proteggga Joint strip is installed edge to edge at junctions and roll ends. Observe the open time of adhesive.



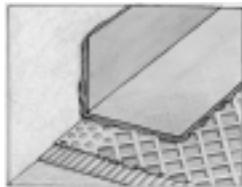
Tile installation

Once installed, Proteggga must be protected against heavy mechanical loads to avoid loosening it from the substrate or other damage, prior to laying tiles. Immediately after the installation of Proteggga, the tiles may be laid on top using the thin-bed method. It is advisable to apply the tile adhesive in a single process using a notched trowel. Fill voids with flat side first and then comb ensuring 100% coverage. For porcelain tiles use a premium fast setting modified mortar. Avoid lining up tile grout lines with Proteggga joint lines. Match the notch size of the trowel to the type and size of the tile. Observe the open time of adhesive.



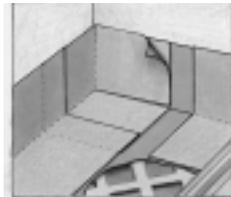
Joints

In those situations where moisture proofing is desired, a Proteggga joint strip should be installed. The joint strip is placed over the Proteggga which has been placed edge to edge and fixed with tile adhesive. Ensure full coverage with tile adhesive.



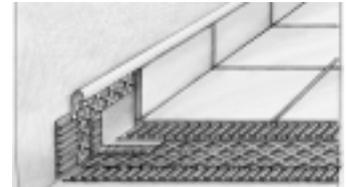
Wall/Floor junction

Where Proteggga is sealed against the wall, use the joint strip, Proteggga Joint strip, as wall/floor junction with tile adhesive behind Proteggga Joint strip to the wall and Proteggga.



Corners

External and internal corners may be cut to size using the joint strip, Proteggga Joint strip. Ensure full coverage with tile adhesive. Overlap Proteggga Joint strip where suitable.



Profiles

Install a strip of Proteggga on the wall using tile adhesive and seal the junction with Proteggga Joint strip. A profile can be installed above the skirting tile.

Expansion Joints

Proteggga is cut over existing expansion joints. According to relevant standards, movement joints should be continued into the tile coverings. Large surface areas should be divided in accordance with relevant standards. Depending on the expected movement, appropriate expansion profiles such as Bengard's expansion joint profiles should be incorporated above structural joints.

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