



PROVA-FLEX®

PRODUCT DATA SHEET

Description

PROVA-FLEX® is a durable, lightweight uncoupling membrane that provides crack isolation protection on cement slabs and an easy-to-install, labor saving alternative to backer board on wood substrates. The PROVA-FLEX® unique design features an impermeable polypropylene sheet formed with a regular pattern of hollow studs to hold thinset mortar, sandwiched between a woven polypropylene netting on top and a polypropylene non-woven anchoring fabric that is laminated to the bottom with a polyolefin based adhesive (*Shear Stress Control*). The top netting ensures a superior mechanical bond with the cured thinset holding the tile to the PROVA-FLEX® (when compared to open dove-tailed designs), while the bottom fabric neutralizes stress caused by multi-directional lateral substrate movement thereby protecting the tiled surface.

Properties

- Provides excellent bonding surface for tile
- Bridges stress cracks and control joints
- Light weight, labor saving
- Equalizes substrate vapor pressure
- Water impermeable
- Chemical resistant, non-rotting
- Rated **EXTRA HEAVY** by TCNA Robinson Floor Test (ASTM C627)

Typical Applications

PROVA-FLEX® provides the ideal underlayment for interior residential and commercial tile applications on both cement slabs and wood substrates. Lightweight but durable, PROVA-FLEX® provides a tenacious bonding surface for tile and a separation layer between tiles and the substrate, preventing the transfer of stresses to the tile surface. PROVA-FLEX® is not recommended for exterior applications.

Suitable Substrates

Plywood and OSB (Exterior Glue only) substrates for ceramic tile installations:

- 16" o.c. joist spacing, minimum subfloor thickness: 5/8"
- 19.2" o.c. joist spacing, minimum subfloor thickness: 3/4"
- 24" o.c. joist spacing, minimum subfloor thickness: double layer 3/4" + 3/8"

For natural stone and large format tile installations, substrate deflection cannot exceed L/720.

Concrete slabs that are stable, flat, structurally sound, and free of agents, coatings, etc. that could inhibit the thinset mortar bond.

Installation

Substrate must be flat, clean, dry and load structurally sound. Measure and dry cut the PROVA-FLEX® to fit the installation area. Apply thinset mortar to the substrate using a 1/4" square notched trowel. (Select thinset as recommended by the manufacturer for the installation substrate). Using the flat side of a trowel, firmly press the PROVA-FLEX® into the thinset ensuring that the fabric underneath is completely embedded in the thinset and air pockets eliminated. Select a thinset recommended by the thinset manufacturer for the type of tile to be installed. Fill in hollow studs on top side of PROVA-FLEX® with flat side of trowel. Comb out the thinset on top of the PROVA-FLEX® and install tile per TCNA guidelines and industry standards being careful not to exceed working thinset working time. PROVA-FLEX® should be protected from heavy loads prior to tile installation. Detail instructions should be read prior to installing PROVA-FLEX®.

NOTE: One bag of thinset covers approximately 100 ft.².



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TECHNICAL DATA

Sheet thickness:	nominal 0.02" (0.5 mm)	Water vapor resistance:	525 ft. (160 m) equiv. air layer
Stud height (net):	approx. 0.12" (3 mm)	Air gap volume:	0.0052 ft. ³ /ft. ² (1.6 liter/m ²)
Construction height:	approx. 0.18" (4.5 mm)	Stud cavities volume:	0.0039 ft. ³ /ft. ² (1.2 liter/m ²) tile adhesive
Unit weight:	0.123 lbs/ft. ² (600 g/m ²)	Life expectancy:	At least 50 years for defined Applications
Top Netting Material:	Woven polypropylene	Limitations:	Tile size should be at least 2" x 2" (50 x 50 mm).
Sheet Material:	Polypropylene (PP)	Color:	
Bottom Fabric:	Non-woven Polypropylene	Membrane sheet:	red
Loading performance:	Defined by tile specification	Top netting:	white & grey
Working temperature:	14° - 140°F (-10° to 60°C)	Bottom fabric:	white
Installation temperature:	41° - 104°F (5° to 40°C), but limited to tile adhesive specification	Dimensions:	TT8004RED05: 3.28' x 16' (1 m x 5 m) 52.48 sq. ft./roll (25 rolls per pallet) TT8004RED82R: 3.28' x 82' (1 m x 25 m) 269 sq. ft./roll (9 rolls per pallet)
Storage temperature:	Max.113°F (45°C)	Chemical Resistance	PROVA-FLEX® is resistant to most chemicals to which it could be exposed to during normal building construction. A small number of aggressive chemicals (e.g. solvents), in large concentrations, could attack PROVA-FLEX® during prolonged exposure. If in doubt, and for unusual applications, please contact customer support.
Softening temperature:	320°F (160°C)		
Linear coefficient of thermal expansion:	0.004"/ft°F (0.18 mm/m°C)		