

TILO BOND PREMIUM 500 C1T/T1

Polymer modified tile adhesive



Description

Tilobond Premium 500 is a polymer modified thinset tile adhesive for fixing ceramic tiles, in internal areas. It is suitable for both vertical and horizontal application, over the cementitious substrate. It is supplied as a drymix mortar, to which water needs to be added before application.

Features and Benefits

- Ready to mix just need to add water
- Can be used in internal areas, for floor as well as wall application.
- No hacking of the substrate required to achieve the required bonding.
- Self curing
- Water resistant.
- Excellent adhesion and low shrinkage
- Useful for bed thickness of 3-12 mm. May go upto 15mm in a limited extent.

Recommended Substrate

- Cement Plaster
- Tile on Tile Application
- Dry & Wet Area
- Cement Screed
- Concrete masonry

Application Methodology

Surface Preparation

- Clean the substrate of oil stains and bond inhibiting compounds, dirt, dust, and laitance, if any, use high-pressure water jet or any other suitable method for cleaning.
- The substrate should be cured sufficiently to avoid the shrinkage cracks
- Saturate the surface thoroughly and remove excess water before the application of Tilobond Premium

Preparation Of Mixing

- Add three parts of Tilo Bond Premium powder to one part of water. The addition of water should be adjusted to attain the desired consistency. Always add powder into water.
- Mixing can be done manually or by homogeneous lump free paste.
- After proper mixing leave paste for 5 Minutes for polymeric dispersion.
- Use paste within 80 min.

□ Method of Application

- Spread the adhesive to thickness of approx. 3 - 6 mm with a notched trowel remember to only apply the adhesive paste that can be fixed within 10-15 minutes.
- Start placing the tiles on the surface to be tiled. Place the tiles properly to ensure complete coverage of the backside of tiles and to eliminate the possibility of any air voids.
- Keep joints between two-tiles by using spacers.

Application Standards:

EN 12004 & ISO 13007 (C1T) ,IS 15477:2019 (Type 1)

EN/ISO Data

Tensile Adhesion Strength

Test Method	Requirement	Typical Value
Tensile Adhesion Strength Initial	$\geq 0.50 \text{ N/mm}^2$	0.51 – 0.58 N/ mm ²
Tensile Adhesion Strength After Water Immersion	$\geq 0.50 \text{ N/mm}^2$	0.50 – 0.60 N/ mm ²
Tensile Adhesion Strength Heat Ageing	$\geq 0.50 \text{ N/mm}^2$	0.51 – 0.58 N/ mm ²

IS Data

Tensile & Shear Adhesion Strength

Test Method	Requirement	Typical Value
Tensile Adhesion Dry (28 days)	$\geq 0.50 \text{ N/mm}^2$	0.60 – 0.63 N/ mm ²
Tensile Adhesion Wet (28 days)	$\geq 0.50 \text{ N/mm}^2$	0.50 – 0.53 N/ mm ²
Shear Adhesion (Heat Ageing) (14 days at room temp + 14 days at oven)	1.00 N/mm ²	1.10 – 1.12 N/ mm ²

Product Details

Appearance	Grey powder
Bulk density	1.5 to 1.55 gm/cc
Mix density	1.80 to 1.85 gm/cc
Mixing ratio(powder to water)	3 :1 by volume
Pot life	1 hour 30 min
Open time	15 min
Adjustment time	10 min
Foot trafficable	24 Hrs

Coverage:- Approx 55-60 sqft/20 kg bag for 3 mm bed

Packaging :- 20 Kg BOPP bag

Shelf Life :- 1 year from month and year of manufacturing for unopened bags. Store in dry condition

TILO BOND PREMIUM 500

Polymer Modified Tile Adhesive



Area of Application

It is recommended for floors, Wall and internal Application

Technical standards and performance

<input type="checkbox"/> Appearance	:	Cement Grey Powder
<input type="checkbox"/> Mix ratio	:	Approx. 3 Powder: 1 part of water (by vol.)
<input type="checkbox"/> Open time	:	10 - 15 minutes
<input type="checkbox"/> Adjustment Time	:	5 Minutes
<input type="checkbox"/> Pot life	:	approx 80 - 90 min.
<input type="checkbox"/> Coverage	:	25 Sq.ft/ 20Kg Bag at 6 mm thickness
<input type="checkbox"/> Foot Trafficable	:	24 hrs
<input type="checkbox"/> Applicable standard	:	ISO 13007 And EN 12004, C1TE Adhesive
<input type="checkbox"/> Tensile adhesion strength	:	> 0.5 Mpa @ 28 days

Packaging

Available in 20Kg Bag.

Storage

Tilo Bond Premium has a shelf life of 12 months, when stored in unopened bag under normal warehouse conditions.

GLOBE CONSTRUCTION CHEMICALS

An ISO 9001 : 2015 Company

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