



# Tilobond UTA 510 C1TE/T 2T Adhesive

Polymer modified tile adhesive for ceramic  
and vitrified tiles



ISO 9001:2015



Smart Cities & Green  
Building Concept in India

## Description

Tilobond UTA 510 is polymer modified cement based construction adhesive needs to be mixed for installation of ceramic tile on wall & vitrified tiles on interior floor and external floor. This is also suitable for tile – on – tile application.

## Features and Benefits

- High bonding strength.
- Single component, just add water.
- For installation of vitrified tiles on the floor.
- Useful for bed thickness of 3-15\* mm. May go up to 15 mm in a limited extent for wall & floor application.
- No curing and hacking required on substrates.
- Complies with ISO C1TE
- Exceeds IS 15477: 2019 Type 2 Adhesive.

## Recommended Substrate

- Concrete
- Cement Plaster
- Brick & Block masonry
- Tile on Tile application

## Limitation

- Do not use for fixing vitrified tiles on walls
- Do not use for wooden flooring, for insulating and sound proofing panels
- Do not use for large format tiles.

## Application Methodology

### Preparing the substrate

- Clean the substrate of oil stains and bond inhibiting compounds like, dirt, dust, and laitance, if any, use high-pressure water jet or any other suitable method for cleaning.

- Ensure that the substrate is flat, stable, well adhered, and has a normal absorption.
- The substrate should be cured sufficiently to avoid the shrinkage cracks.
- Correct the local undulation/damage on the substrate at least 48 hours before the application
- Saturate the surface thoroughly and remove excess water before the application

### Mixing

- Add 3 parts of Tilobond UTA 510 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 low speed stirrer continuously 5 to 10 min to obtain homogeneous lump free paste.
- After proper mixing leave paste for 5 min. for polymer dispersion
- Use paste within 90 min.

### Method of Application

- Spread the adhesive with notched trowel, remember to only apply the adhesive paste that can be tiled within 30 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 eliminate the possibility of any air voids.
- Double buttering of adhesive is recommended for fixing heavy tiles
- Ensure adequate gap is kept between subsequent tiles to accommodate for thermal expansion and contraction.

### Precaution & Limitations

- Do not add more water than recommended
- Do not add cement at site
- Not recommended application on direct gypsum plaster, metal, wood surface and paint

## Technical standards and performance

Appearance	Grey & White Powder
Mix ratio	Approx. 3 powder : 1 part of water
Open time	30 Min
Adjustment time	30 Min
Pot life	90 Min
Coverage	1.25.sqft/ kg @ 6 mm thickness
Foot trafficable	24 Hrs.
Applicable standard	Exceeds IS 15477:2019 – Type 2 T Adhesive standards Complies with EN / ISO with a C1TE

### ISO 13007 and EN 12004

Classification	Properties	Requirement	Typical Values
C1 – Normal cementitious adhesives	Tensile adhesion strength	≥ 0.5 N/mm <sup>2</sup>	0.71 N/mm <sup>2</sup>
	Tensile adhesion strength after water immersion	≥ 0.5 N/mm <sup>2</sup>	0.68 N/mm <sup>2</sup>
T – Slip resistance	Tensile adhesion strength after heat ageing	≥ 0.5 N/mm <sup>2</sup>	0.57 N/mm <sup>2</sup>
	Slip	≥ 0.5 mm	No Slip
E - Extra open	Extended open time		

### IS 15477: 2019

Type	Properties	Requirement	Typical Values
Type 2 Adhesive	Tensile adhesion strength : Dry Conditions 14 days	Minimum 1.00 N/mm <sup>2</sup>	1.20-1.24 N/mm <sup>2</sup>
	Tensile adhesion strength : Wet Conditions (7 days dry + 7 days water immersed)	Minimum 1.00 N/mm <sup>2</sup>	1.18-1.27 N/mm <sup>2</sup>
	Shear Adhesion Strength : Dry Condition 14 days	Minimum 1.25 N/mm <sup>2</sup>	1.47-1.56 N/mm <sup>2</sup>
	Shear Adhesion Strength : Heat Aging Conditions	Minimum 1.00 N/mm <sup>2</sup>	1.10-1.17 N/mm <sup>2</sup>
	Shear Adhesion Strength : Wet Conditions	Minimum 1.00 N/mm <sup>2</sup>	1.13-1.19 N/mm <sup>2</sup>



## **Coverage**

Approximately 1.25 – 1.50 sq. ft. /Kg @ 6 mm of thickness.

## **Packaging**

20 kg double layered BOPP bags

## **Shelf life**

1 year from month and year of manufacturing, for unopened bags, stored in dry condition.

**GLOBE CONSTRUCTION CHEMICAL PVT. LTD.**

**An ISO 9001: 2015 Company**

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