



**TIGONIS**

**TILE ADHESIVE  
ULTRA PREMIUM**



**Color :** Grey , White  
**Pack Size:** 20 Kg, 30 Kg



### Standards

Tigonis TILE ADHESIVE ULTRA PREMIUM complies with the adhesion requirements of IS 15477:2019 Type 2T

### Coverage Estimates

Coverage approx. 2.75 - 3 sq. ft. / per kg with 3 mm thickness. Pack size Coverage 20 kg approx. 55-60 sq. ft. and with Pack size 30 kg approx. 80-90 sq. ft. using a 6 mm x 6 mm square notch trowel. Note: Coverage will depend on the nature and flatness of the surface and the method of application. For good coverage, it is must that all surfaces are smooth, plumb, level and free from defects and undulations.

### Application Areas

Interior Floor, Interior Walls (Up to any height), Tile on Tile applications on floor and wall.

### Tile Size

Interior and exterior Floor application – Up to any size, Interior Wall application – Up to 5 ft. by 2.5 ft.

### Type of Tile

Ceramic, Vitrified tiles, Clay tiles, Stone, Mosaic, Large Tiles for interior applications, Tiles with porosity less than 3% for all interior applications.

### Bed Thickness

Up to 12 mm bed thickness.

### Substrates

Cementitious, plastered walls, Concrete, Cement - lime mortars, Screed.

### Features & Advantages

- Easy to use - just add water on site, ready to use.
- Water resistant - suitable for wet areas.
- Sag Resistant formula - provides hassle-free application on vertical walls.
- Highly Polymer modified - provides high adhesion for fixing a variety of tiles and stones.
- Self-curing properties, which allows hassle-free application with minimum labor.
- Low VOC - for healthy living.

### Substrate Preparation

- The substrate must be level, cured, undamaged, compact, rigid, resistant, dry and free from any deboning agents and from damp rising.
- All surfaces must be plumb and true to within 6 mm in 10 ft. (3m).
- Dry, dusty surfaces should be dampened with water & excess water should be swept off.



**Bengal Building Solutions Pvt Ltd**

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## Mixing

- Add 3 – 3.5 parts of powder to 1 part of water or 5 - 6 liter water for 20 Kg powder in a clean mixing vessel.
- Adjust the water as per desired consistency.
- Mix with a suitable mechanical stirrer or slow speed drills (50 - 100 rpm) until a lump free homogeneous paste is obtained.
- Leave mixture for 5 minutes before use.

Testing Properties	Requirement	Value
Tentative Mixing Ratio (Powder: Water)		Gray(24-26% BY WEIGHT) White(25-28% BY WEIGHT)
Type(IS 15477 : 2004)		Type-2T
Mixed Density(kg/liter)		1.9
Open Time (IS 15477: 2019)		20-30 MIN
Adjustability (IS 15477: 2019)		15-25MIN
Pot Life		90-120MIN
VOC Content(EPA 24)		<4% gm./kg
Setting/ Trafficable/ Grouting Time		24 hours
Adhesive Thickness		3-12mm
Application Temperature (substrates and materials)		5°C to 35°C
Tensile Adhesion Strength(N/mm <sup>2</sup> ) (IS 15477: 2019)		
Dry Condition at 28 days	1	1.42
Wet Condition at 28 days	1	1.18
Shear Adhesion Strength(N/mm <sup>2</sup> ) IS 15477: 2019		
Dry Condition at 28 days	1.25	1.56
Wet Condition at 28 days	1	1.15
Testing Properties	Requirement	Value
Tentative Mixing Ratio ( Powder : Water )		Gray ( 24-26% by weight ) White ( 25-28% by weight )
Type ( IS15477 : 2004 )		Type- 2T
Slip Resistance ( IS 15477: 2019)	≤ 0.5 mm	0.20mm

## Applications

- Apply adhesive to the substrate with the flat side of the trowel.
- Comb on additional adhesive with the notched side.
- Use the proper sized notched trowel to ensure full bedding of the tile.
- Tiles must be fixed within 15-20 minutes of adhesive being applied, depending on the porosity of the surface and atmospheric conditions.
- Leave no voids behind tiles.
- For large size tiles or irregular surfaces, adhesive can additionally be buttered on the backs of the tiles to ensure full adhesive contact.
- Use suitable support along with adhesive for fixing tiles on vertical surfaces.
- Clean off surplus adhesive from the tile face and between joints.



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