



# TIGONIS

## TILE ADHESIVE – DIAMOND

Modified polyurethane based multipurpose adhesive for stone & tile fixing



**TIGONIS Diamond PU** is a two part modified Polyurethane multipurpose thin-set adhesive for fixing all type of tiles and stones including (Composites engineered stone) on interior and exterior surface like Concrete Masonry & Brick Masonry, Cement mortar Beds & Plaster, Metal Substrates, dry wall boards, plywood ,all types of wood Substrate. It has been designed for fixing water Sensitive tiles/ stones on deformable or absorbent/ non-absorbent Substrate. It is highly flexible and water freeze and thermal shock resistant when fully cured.

### Physical Properties

Appearance	PART.A: White Paste PART.B: Cream Paste
Mixed Density	1.65 ± 0.1 kg / Liter
Shelf Life	12 Month in the Original Packing
Mixed Material Appearance	Off White Paste
Open Time	Minimum 60 minute
Adjustability	Minimum 60 minute
Pot Life	Minimum 60 minute
Vertical Slip	≤ 0.5 mm
Foot Traffic	= 24 Hour
Grouting	= 12 Hours on walls= 24 Hour on floors
Temperature range for application	10°C to 40°C
Coverage	20-25 sqft per 4 kg Bucket

### Packaging

4 Kg Bucket (PART A : 3.200 Kg/ PART B : 0.800 Kg)

### Mixing

Tigonis Diamond Adhesive is prepared by mixing together parts A and part B from the bottom upwards, using a low-rev (=400/ min) halicalagitator with present mixing of 4:1 of the packs. Pour Part B into the bucket containing Part- A, being careful to mix the two parts uniformly until a smooth paste is obtained.

### Note

Test results are indicative as per testing method specified in standard. Test results may vary as per substrate. Site condition & testing machine etc. Actual held performance will depend on installation method and site conditions.

### Performance As per EN12004 (R2T)

	Requirement	Test Result
Initial Shear Adhesion Strength	≥ 2.0 N/mm <sup>2</sup>	≥ 5.0 N/mm <sup>2</sup>
Shear Adhesion Strength after water immersion	≥ 2.0 N/mm <sup>2</sup>	≥ 5.0 N/mm <sup>2</sup>
Shear Adhesion Strength after thermal shock	≥ 2.0 N/mm <sup>2</sup>	≥ 5.0 N/mm <sup>2</sup>
Slip resistance	≤ 5.0 N/mm	≤ 0.3mm

### Performance As per IS 15477:2019 ( Type 5 T S2)

	Requirement	Test Result
Tensile Adhesion at Dry Condition at 28 days	≥ 2.0 N/mm <sup>2</sup>	≥ 2.0 N/mm <sup>2</sup>
Tensile Adhesion at Wet Condition	-	≥ 1.5 N/mm <sup>2</sup>
Shear Adhesion at Dry Condition	≥ 6.0 N/mm <sup>2</sup>	≥ 7.0 N/mm <sup>2</sup>
Shear Adhesion at Wet Condition	-	≥ 5.0 N/mm <sup>2</sup>
Shear Adhesion at Heat Ageing	≥ 3.0 N/mm <sup>2</sup>	≥ 5.0 N/mm <sup>2</sup>
Deformability (s2)	≤ 5mm	≤ 30mm



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