



# TA C-2 Standard

## White High Poyler Modified Tile Adhesive

Pack Size  
25Kgs  
20Kgs

### TDS Technical Data Sheet



### Description

TA C2 STANDARD is a high polymer-modified, grey cement-based tile adhesive designed for fixing medium format tile/stone on interior walls/floors and exterior floors, with a bed thickness up to 6mm (extendable to 12mm in limited areas). The set adhesive is water-resistant and suitable for use in showers and fully immersed situations such as swimming pools. It is ideal for fixing mosaics, vitrified tiles, terrazzo, natural stone, and for tile-over-tile renovation work.

### STANDARDS

Conforms to IS 15477: 2019 Type 2T "Adhesives for use with Ceramic, Mosaic, and Stone Tiles" Conforms to EN 12004: 2017 and is classified as a normal cementitious adhesive (C1) with slip resistance (T) of class C1T.

### FEATURES

High bond strength Easy mixing, smooth application, and better workability Suitable for most common substrates and tiles Water-resistant Enhanced flexibility and adhesion with cretebond- meta based emulsion .

### SUITABLE BACKGROUND / BASES

New substrates:

- Concrete walls & floors
- Cement sand screed
- Cement sand render

Renovation works on existing:

- Unglazed tiles
- Hard natural stones
- Glazed tiles\* (vitrified and ceramic tiles)
- Mosaic tiles\* and in-situ mosaic flooring\*
- The surface should be abraded (roughened) and cleaned before installation.

### TECHNICAL INFORMATION

Bed Thickness:	up to 6 mm (suitable up to 12mm in areas of limited extent)
Pot Life:	3 hours
Setting Time:	24 hours
Temperature Resistance:	-30°C to 150°C

Product Data Sheet

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VOC Content:	1.12 g/L
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## Properties as per IS 15477:2019@27 ± 2°C

### Property with Test Method

Tensile Adhesion Strength (as per Annex A)	Dry Condition: 1.00 N/mm <sup>2</sup> (Typical Result: >1.10 N/mm <sup>2</sup> ) Wet Condition: 1.00 N/mm <sup>2</sup> (Typical Result: >1.00 N/mm <sup>2</sup> )
Shear Adhesion Strength (as per Annex B)	Dry Condition: 1.25 N/mm <sup>2</sup> (Typical Result: >1.25 N/mm <sup>2</sup> ) Heat Aging Condition: 1.00 N/mm <sup>2</sup> (Typical Result: >1.10 N/mm <sup>2</sup> ) Wet Condition: 1.00 N/mm <sup>2</sup> (Typical Result: >1.00 N/mm <sup>2</sup> )
Open time (as per Annex C):	As per Mftr. (Typical Result: 20 mins)
Adjustment time (as per Annex D)	: As per Mftr. (Typical Result: 15 mins)
Slip (as per Annex E):	< 0.50 mm (Typical Result: 0.35 mm)

## Properties as per EN 12004: 2017 @ 23 ± 2°C

### Property with Test Method (as per Part 2)

Tensile Adhesion Strength (Clause 8.3)	Initial: ≥ 0.50 N/mm <sup>2</sup> (Typical Result: > 0.90 N/mm <sup>2</sup> ) After water immersion: ≥ 0.50 N/mm <sup>2</sup> (Typical Result: > 0.80 N/mm <sup>2</sup> ) After heat aging: ≥ 0.50 N/mm <sup>2</sup> (Typical Result: > 0.80 N/mm <sup>2</sup> ) After freeze-thaw cycles: ≥ 0.50 N/mm <sup>2</sup> (Typical Result: > 0.75 N/mm <sup>2</sup> )
Open time @ 20 mins:Tensile Adhesion Strength (Clause 8.1 & 8.3)	≥ 0.50 N/mm <sup>2</sup> (Typical Result: > 0.60 N/mm <sup>2</sup> )
Slip (T) (Clause 8.2)	: ≤ 0.50 mm (Typical Result: 0.30 mm)

### COVERAGE ESTIMATES

Coverage Approx. 1.30 - 1.40 kg/m<sup>2</sup>/mm

Square notch Trowel size: Consumption/m<sup>2</sup> (@ 45° angle of trowel)

6mm X 6mm: 2.75 - 2.90 Kgs

8mm X 8mm: 3.65 - 3.90 Kgs

12mm X 12mm: 5.45 - 5.85 Kgs

Note: Coverage will depend on the nature and flatness of the surface and the method of application. For good coverage, it is vital that all surfaces are smooth, plumb, level and free from defects and undulations.

### APPLICATION INSTRUCTIONS

Substrate Preparation Before starting any work ensure that the base is: Sufficiently flat to permit the specified flatness of finished tiling, bearing in mind the permissible thickness of the adhesive. Suitable for tiling in the service conditions to which it will be exposed. Surfaces to be tiled must be dry, clean and free from loose material and contamination.

### SITE WORK INSTRUCTIONS

Surface considerations New Concrete Bases: Before commencing tiling, ensure that bases have been allowed to air dry for at least 4 weeks. New Cement Sand rendering: Before commencing tiling, allow the plastered surface to air dry for at least 2 weeks (3 weeks for swimming pools). Existing Concrete/Screed Bases: Cut out all loose or hollow portions and make good with a 1:3 cement : sand mortar applied over a slurry bonding coat\* and let it cure and dry for 7 days. Ceramic/Vitrified & Fully Vitrified Tile/Terrazzo/Hard Natural Stone Bases: Check that the existing finish is firmly adhering to the base. Remove any loose or hollow-sounding tiles and reprofile with a 1:3 cement sand mortar over a slurry bonding coat\*. Any surface contamination should be removed with HEAVY DUTY TILE CLEANER/TILE & STONE CLEANER. \*Slurry bonding coat is prepared by mixing 2 parts of Portland cement to 1 part of ADMIX AD1. Brush on the base immediately before applying the adhesive.

### MIXING

Mix TA C2 STANDARD to clean water. Mix thoroughly until a lump-free mortar is obtained. The adhesive is immediately ready-for-use and has a pot life of 3 hours. No further water should be added. Where mixing by weight is not possible, volume mixing can be carried out at the site in the ratio of 1:3.5 (water : powder).

Water Content:

20 kg Bag: 3.80 to 4.10 litres

50 kg Bag: 9.50 to 10.25 litres In case of using latex additives:

Water+ADMIX AD 1:

20 kg Bag: 2.80 to 3.10 litres + 1 litre of ADMIX AD 1

50 kg Bag: 7.00 to 7.75 litres + 2.5 litres of ADMIX AD 1

## APPLICATION

Spread not more than the area which can be tiled within the open time of the adhesive. The mixed adhesive is applied to the prepared surface with a trowel and then combed through with a suitably sized square-toothed notched trowel. The tiles should be fixed within the open time of the adhesive and pressed into place with a twisting and sliding action ensuring solid bed fixing is achieved. The open time is dependent on site conditions and will be extended in lower temperatures and shortened at higher temperatures. Check periodically that good contact is maintained with the back of each tile. Touch the adhesive ribs periodically and if a skin has formed, remove the adhesive and apply a new layer. Leave adequate joints between individual wall and floor tiles unless self-spacing tiles are used. Clean off surplus adhesive from the tile face and between joints. Note: Do not use in damp conditions and temperatures less than 5°C. Seal the sides & bottom of porous stones with UNDERTILE & STONE PRIMER to avoid migration of moisture. Use suitable clamps along with adhesive at the time of installation of tiles/stones above 3m height as recommended by IS 15477:2019. For large span tiling works, leave movement joints at every 3m interval and fill with a flexible sealant as per BS 5385. Prevent foot traffic till the adhesive has completely set.

## SPACERS

Use ARDEX ENDURA spacers for uniform joint width.

## GROUTING

Grouting should be carried out after 24 hours. Use the appropriate grouting material from the range of cementitious and epoxy grouts. Note: The addition of ADMIX GT-1 to cement-based grouts will enhance adhesion to tile/stones edges, increase water resistance, and improve flexibility.

## SEALERS

The range of Tile & Stone surface sealers offers a variety of finishes: Wet look finish: Use 'Heavy Duty Impregnating Tile & Stone Sealer'. Glossy finish: Use 'Impregnating Tile & Stone Sealer'. Natural look: Use 'FC SS' or 'FC Sealer'.

## CLEANING

Tools and containers may be cleaned using clean water when the adhesive is still fresh. The hardened adhesive can be removed from tools mechanically.

## STORAGE AND SHELF LIFE

TA C2 STANDARD has a shelf life of 12 months when stored in normal dry conditions.

**PRECAUTIONS** Keep out of reach of children. Wear suitable protective clothing, gloves, and eye/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.

## Pack Size

25Kgs & 20Kgs



## Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

## Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

## Legal Disclaimer

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