

# PU Tile Adhesive T 14

Modified Polyurethane  
Multipurpose For Tile & Stone

Pack Size  
4Kgs

TDS  
Technical Data Sheet



## Description

PU Tile Adhesive T 14 is a two-part modified polyurethane multipurpose adhesive designed for fixing all types of tiles and stones on a variety of substrates in both interior and exterior areas, whether on walls or floors. It is specifically formulated for fixing water-sensitive tiles and stones on deformable or absorbent/non-absorbent substrates. Once fully cured, PU Tile Adhesive T 14 is flexible, water-resistant, and can withstand freeze and thermal shock.

## Standard

This product conforms to IS 15477: 2019 Type 5TS2 "Specification for Adhesives for use with Ceramic, Mosaic and Stone Tiles" and EN 12004: 2017 as a reaction resin adhesive (R2) with slip resistance (T) of class R2T.

## Uses

PU Tile Adhesive T 14 is ideal for fixing tiles and stones on both deformable and non-deformable substrates, including but not limited to wooden/plywood tabletops for waterproofing, particle boards, plywood, plasterboards, gypsum and fiber cement boards, PVC, rubber, and linoleum, epoxy or polyurethane-based substrates, GRP, polyester panels, metal, and wood floor and walls, cement-based screed, prefab, and aluminum framework such as Mivan formwork finished surfaces.

## Features

PU Tile Adhesive T 14 is ideal for moisture-sensitive stones like artificial or agglomerated marble and natural stones that are prone to staining and warping in the presence of humidity and temperature fluctuations. It is also suitable for stones coated with epoxy or polyester coatings with or without mesh. The adhesive is non-sag, non-shrink, and offers high bond strength and chemical resistance. It is also resistant to freezing and thermal shock and ensures a reliable bond to impermeable, smooth, and vibrating substrates. The product is easy to apply and lightweight, making it an ideal choice for spas, pools, and water features.

## Physical Properties @ 27± 2°C:

Mix Ratio (by weight):	3.8:1.2
Mixed Appearance:	White
Mixed Density:	Approx. 1.5 g/cc
Application Temperature:	+12°C to +40°C
Service Temperature:	-40°C to +70°C

Pot Life:	65 minutes
Foot Traffic:	24 hours
Grouting:	After 24 hours
Full Cure:	7 days
Min & Max Application Thickness:	2 - 4 mm

## Properties as per IS 15477: 2019 @ 27 ± 2°C

Tensile Adhesion Strength (as per Annex A):	Dry Condition $\geq 2.0$ N/mm <sup>2</sup> , Typical Result: 2.50 N/mm <sup>2</sup>
Shear Adhesion Strength (as per Annex B):	Dry Condition $\geq 6.0$ N/mm <sup>2</sup> , Typical Result: 6.20 N/mm <sup>2</sup> ;
Heat Aging Condition	$\geq 3.0$ N/mm <sup>2</sup> , Typical Result: 5.80 N/mm <sup>2</sup>
Open Time (as per Annex C):	As per Manufacturer, Typical Result: 65 mins
Adjustment Time (as per Annex D):	As per Manufacturer, Typical Result: 70 mins
Slip (as per Annex E):	$\geq 0.50$ mm, Typical Result: 30 mm

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

Shear Adhesion Strength (Clause 8.5)	Initial: $\geq 2.0$ N/mm <sup>2</sup> , Typical Result: 5.5 N/mm <sup>2</sup> After Water Immersion: $\geq 2.0$ N/mm <sup>2</sup> , Typical Result: 4.8 N/mm <sup>2</sup> After Thermal Shock: $\geq 2.0$ N/mm <sup>2</sup> , Typical Result: 5.2 N/mm <sup>2</sup>
Open Time:	Tensile Adhesion Strength (after 70 Minutes) (Clause 8.1): $\geq 0.50$ N/mm <sup>2</sup> , Typical Result: 0.65 N/mm <sup>2</sup>
Slip (T) (Clause 8.2)	: $\leq 0.50$ mm, Typical Result: 0.20 mm

## Coverage Estimates

Pack Size: 4 kg

Part A: 3.04 kg

Part B: 0.96 kg

Coverage: 1.5 kg/m<sup>2</sup>/mm

## Square Notch Trowel Size and Consumption/m<sup>2</sup>

4mm x 4mm: 2.13 kg

6mm x 6mm: 3.18 kg

8mm x 8mm: 4.25 kg

10mm x 10mm: 5.3 kg

12mm x 12mm: 6.36 kg

**Note:** Consumption may vary depending on the irregularity of the substrate and the tile format.

## Application Instructions

**Substrate Preparation:** Ensure the base is sufficiently flat to permit the specified flatness of finished tiling, bearing in mind the permissible thickness of the adhesive. The substrate must be clean, dry, and free from contaminants such as dirt, grease, and oil, which must be completely removed prior to installation. Substrates must be compact and normal dry conditions.

**Mixing:** Add Part B to Part A and mix with a drill and paddle on a slow speed until a homogenous and uniform colored paste is achieved.

**Application:** Spread the mixed adhesive using a suitable notched trowel of the type and dimensions most appropriate for the format and type of tiles used. Apply the mix evenly, covering as much area as can be tiled within the product's working time. Place the tiles and adjust them to the correct position. Do not apply to substrates with a temperature of less than 12°C or greater than 40°C. PU Tile Adhesive T 14 should not be used on substrates with a rising moisture problem or a moisture content of more than 4%. Back-butter large format tiles to provide full bedding and firm support. Place tiles into the wet, sticky adhesive and tamp using a beating block or rubber mallet to fix the tile and adjust the level.

## Spacers

Use spacers for uniform joint width.

## Grouting

Grouting should be carried out after 12 hours on walls and 24 hours on floors. Use the appropriate grouting material from the range of cementitious and epoxy grouts. When tiling on deformable substrates, it is recommended to fill the tile joints with cement-based grout admixed with Cretebond or sealant.

Product Data Sheet

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## 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. For more details, please refer to the relevant Material Safety Data Sheet.

## Conditions for sale

Sold subject to the Company's conditions of sale, which are available on request.

## Note

The information supplied in this datasheet is based on extensive experience and is given in good faith to assist you. Our Company policy is one of continuous Research and Development; we, therefore, reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage that may arise as a result thereof.

## Pack Size

4Kgs



## 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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