

**EX - 566 PU**

**PU BASED TILE ADHESIVE**

## TECHNICAL DATA SHEET

HomeSure TileEx **EX - 566 PU** is a two-component, modified polyurethane tile adhesive that offers high deformability, flexibility and exceptional performance.

### SUBSTRATE

Suitable for any solid substrates, including cementitious surfaces, metal, drywall, plywood and both absorbing and non-absorbing materials

### APPLICATION AREA

Interior & Exterior floor & wall applications

### PREFERRED TILES TYPE

Bonds all types of tiles and stones on vertical and horizontal surfaces



## FEATURES

- PU hybrid technology
- Longer open time & pot life
- Bonding to wide range of substrates
- Excellent adhesion strength
- Highly deformable & flexible
- Suitable for both interior & exterior surfaces
- Resistance to water, chemicals & solvents



## PHYSICAL PROPERTIES

NATURE	Part A: Off-white paste Part B: Amber colour liquid
COMPOSITION	Part A: PU resin with graded fillers Part B: Hardener
MIX RATIO, BY WEIGHT	92 : 8
POT LIFE	≥60 minutes @temp. 27°C
OPEN TIME	≥60 minutes @temp. 27°C
ADJUSTMENT TIME	≥60 minutes @temp. 27°C
APPLICATION TEMPERATURE	10°C to 40°C
GROUTING TIME	24 hours
TIME TO HEAVY FOOT TRAFFIC	24 hours

## COVERAGE



- at 1.5 mm bed thickness (3 mm x 3 mm notch):  
1.50 – 0.25 m<sup>2</sup> / 4 Kg pack
  - at 3 mm bed thickness (6 mm x 6 mm notch):  
0.78 – 0.12 m<sup>2</sup> / 4 kg pack
- \*Coverage will vary depending on trowel notch size, type, size of tile and substrate smoothness and evenness*

## APPLICATIONS

- Suitable for interior and exterior wall & floor applications
- Can be used for both new, old walls and tile on tile application

## TECHNICAL DATA

### EN 12004 / ISO 13007 DATA

Test Method	Requirement	Typical Values
Tensile adhesion, open time @60 minutes, N/mm <sup>2</sup>	≥0.50	0.80 ± 0.20
Slip resistance, mm	≤0.50	0.36 ± 0.05
Tensile adhesion strength (after 7 days), N/mm <sup>2</sup>	≥2.00	2.35 ± 0.20
<b>Shear Adhesion Strength, N/mm<sup>2</sup></b>		
Initial	≥2.00	5.80 ± 0.90
After thermal shock	≥2.00	4.70 ± 0.70

The adhesive conforms to EN 12004 / ISO 13007 as R2T

### IS 15477 DATA

Test Method	Requirement	Typical Values
<b>Tensile Adhesion Strength, N/mm<sup>2</sup></b>		
Dry condition	≥2.00	2.40 ± 0.35
<b>Shear Adhesion Strength, N/mm<sup>2</sup></b>		
Dry condition	≥6.00	6.50 ± 0.35
Heat ageing condition	≥3.00	5.40 ± 0.80
Slip resistance, mm	≤0.50	0.35 ± 0.05
Transverse deformation, mm	≥5.00	32.00 ± 4.00

The adhesive conforms to IS 15477:2019 as Type 5TS2

## SURFACE PREPARATION

Ensure the substrate is dry, clean, and structurally sound.



### Condition

Substrate must be stable, cured, compact and free from dust, oils, grease and contaminants. There should be no rising damp, loose particles or flaky areas.

### Surface Stability

The surface must be free of cracks and imperfections, with no hygrometric shrinkage present. Any uneven areas should be smoothed with suitable products.

### Concrete

Concrete should be cured for at least 28 days to prevent shrinkage after tile installation. For external applications or areas exposed to heavy traffic, ensure proper curing time.

### Steel and Metal

Remove rust on metal substrates by sandblasting.

### Gypsum and Anhydrite Surfaces

Use a suitable primer, if required, to reinforce gypsum board or anhydrite substrates.

## MIXING

The two components are provided in separate packs (Part A and Part B).

Always mix in the correct ratio for optimal performance

- Mixing Ratio: Part A: 92 Parts, Part B: 8 Parts by weight
- Method: Pour Part B into Part A and mix thoroughly using a low-speed electric stirrer (approximately 400 rpm) until a uniform, smooth, and evenly homogenous paste is obtained
- Preparation Time: Mix only the amount that can be used within 1 hour at +27°C and 65% relative humidity



## APPLICATION INSTRUCTIONS

**Trowel Selection:** Use notched trowel according to the size of the tiles being installed. For optimal bonding, choose a trowel that allows a minimum 80-95% coverage on the back of the tiles.



**Application:** Apply a thin layer of the mixed adhesive onto the substrate using the flat side of the trowel. Then, create ribs by combing with the notched side of the trowel.

**Tile Placement:** Place tiles firmly into the adhesive, apply slight pressure with a twist motion to ensure full coverage. With a rubber mallet tap the tiles into position to ensure proper adhesion.

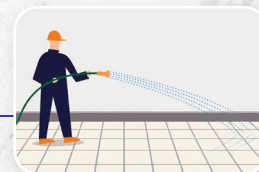
**Double-Spread Technique (for high-traffic areas):** For areas with heavy foot traffic, or for high-elasticity fixing, apply adhesive both on the substrate and the back of the tile for full coverage and optimal adhesion.

**Large or Irregular Tiles:** For large format tiles or tiles with high lugs/ribs, butter the back of the tiles with additional adhesive to ensure full contact.

**Adjustment Time:** The adhesive remains workable for approximately 50 minutes under the normal temperature and humidity conditions. Adjustments should be made within 90 minutes after the adhesive is applied.

## CURING AND DRYING

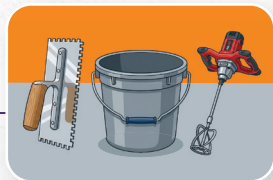
**Light Foot Traffic:** Floors can be set to light foot traffic after 24 hours.



**Grouting and Sealing:** Grouting can be done after 24 hours using Homesure TileEX Two Component Epoxy Grout.

**Ready for Use:** The surface is ready for full use after 7 days of curing.

## CLEANING



- Fresh Adhesive: Tools, buckets, and surfaces can be cleaned with water and alcohol while the adhesive is still fresh
- Cured Adhesive: Once cured, the adhesive can only be removed mechanically

## PRECAUTIONS & LIMITATIONS



- Do not apply the adhesive on damp surfaces or where there is a risk of rising damp. Ensure the substrate is dry, clean, and stable before application
- Strictly adhere to the prescribed mixing ratio of 92 parts (A) to 8 parts (B) by weight. Any variation from this ratio may result in improper hardening and reduced performance
- For partial mixing, weigh both parts precisely to ensure the correct ratio is maintained. Mixing errors can affect the performance of the product
- Apply the adhesive at temperatures between +10°C and +30°C. Avoid using the product outside this range to ensure optimal curing and workability
- This product is intended for professional use only. Ensure that all installers are trained and familiar with the safety data sheet (SDS) and handling procedures

## HEALTH & SAFETY INFORMATION



- Refer MSDS for information and advice on the safe handling, storage and disposal of chemical products
- Use rubber hand gloves and safety goggles, while using product avoid contact with skin/eyes and avoid swallowing. In case of contact with skin, wash with plenty of water
- Ensure adequate ventilation and avoid inhalation of vapour
- Keep out of children's reach

## SHELF LIFE & STORAGE INSTRUCTIONS



- 18 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C
- Store in dry and well-ventilated place away from heat source, direct sunlight, humidity, water source

## PACKING

Available in 4 Kg bucket  
(3.68 Kg Part A & 0.32 Kg Part B)



## HOMESURE TILE EX RANGE OF PRODUCTS

Tile Expert



TA EX Version 1 - 26 Mar 2026

