

TRUFIX 550

Two Part PU Modified Hybrid Epoxy Adhesive

ASTRAL

TRUBUILD™

TECHNICAL DATA SHEET VER NO. N.1

TRUBUILD TRUFIX 550 is a two-component, PU modified, hybrid epoxy adhesive for high performance and high adhesion for fixing tiles with no vertical slip-on deformable substrates. It is suitable for metal, plywood, cement board and dry wall construction. Designed for absorbent and non-absorbent substrates.

It complies to **IS 15477:2019 Type 5 TS2** and **EN 12004: 2107 R2T**. CFTRI Approved.

FEATURES & ADVANTAGES



IDEAL FOR DRYWALLS, METAL AND PLYWOOD



INTERIOR AND EXTERIOR APPLICATIONS



HIGH COVERAGE



SHATTERPROOF



VERSATILE

- Versatile: floors and walls, for internal and external use.
- Extended open time up to 1 hr
- Ideal for marble and natural stone that tends to form stains and sag in the presence of humidity.

- Easy in application
- Suitable for a variety of substrates viz. porcelain tiles, dry wall boards ceramics, large formats, low thickness slabs and natural stone.
- CFTRI approved

AREAS OF APPLICATION



PACKAGING



- Laying of ceramic tiles, porcelain tiles, marble and natural stone, on floors and walls and on absorbent/non-absorbent/deformable substrates.
- Fixing porcelain tiles, low thickness slabs, ceramic tiles, clinker bricks, glass and ceramic mosaic, natural stone, marble, granite and recomposed materials & wood, metals, rubber, linoleum internal and external flooring and walls in domestic, commercial and industrial applications.
- Suitable for fixing metal sheet used for prefabricated bathrooms, on work sops and kitchens, balconies, terraces, flat roofs and domes. Can be used for fixing tiles in swimming pool and water fountains.

METHOD OF APPLICATION

- The substrate must be clean, sound, and free from dust, oil, grease, algae, fungi, efflorescence, rising dampness, and any loose or poorly bonded particles.
- Ensure the surface is crack-free and has completed a minimum curing period of 28 days to allow for hygrometric shrinkage.

- Uneven surfaces should be repaired using a suitable polymer-modified mortar or concrete repair material.
- Trubuild Trufix 550 is prepared by thoroughly mixing Part A and Part B in the pre-set ratio of 4:1 by weight. Pour Part B into the container of Part A and mix using a low-speed (approximately 400 rpm) helicoidal mixer from the bottom upwards until a smooth and uniform coloured mixture is achieved.
- Continue mixing for at least 5–7 minutes to ensure proper blending.
- Prepare only the quantity of adhesive that can be used within 1 hour at +27 °C and 65% relative humidity.
- Apply TRUBUILD TRUFIX 550 using a suitable notched trowel. First, spread a thin layer of adhesive using the flat side of the trowel while pressing firmly onto the substrate to ensure optimum adhesion.
- Place and press each tile firmly to achieve maximum surface contact and coverage.
- For substrates exposed to heavy traffic, exterior applications, or areas requiring a highly elastic fixing system, use the double-spread method to ensure 100% adhesive coverage on the back of the tiles.
- For vertical applications, use suitable temporary supports as per standard construction practices to maintain proper tile alignment during installation.

CURING

Allow curing for 24 hr before foot traffic and other work like grouting between the tile.

CLEANING

Trubuild Trufix 550 can be removed from tools and equipment immediately after use with thinner and hardened material can be removed mechanically.

TECHNICAL DETAILS

S.NO.	PROPERTIES	RESULTS
1.	Appearance	Opaque-white paste
2.	Mixing ratio	4:1 Part A (Base): Part B (Hardener)
3.	Mix Density	1.35±0.10
4.	Initial setting/ trafficable/ grouting time	Min. 24 hr.
5.	Application Temperature	10°C to 40°C
6.	Open Time	≥1 hour
7.	Adjustment Time	≥1 hour
8.	Pot life	≥1 hour
9.	Interval before normal use	3 days
10.	Coverage	Approx. 2-4kg/ m ² / 1.5-3mm

PERFROMANCE PROPERTIES AS PER EN 12004:2017 (R2T)

PROPERTIES	REQUIREMENT	RESULTS
Initial tensile adhesion strength	≥2.0 N/mm ²	≥6.5 N/mm ²
Shear adhesion strength after water immersion	≥2.0 N/mm ²	≥5.5 N/mm ²
Shear adhesion strength after thermal shock	≥2.0 N/mm ²	≥6.0 N/mm ²
Slip Resistance (T)	≤0.5 mm	≤0.12 mm
Extended open time (E) @ 60 min.	≤0.5 N/mm ²	≥1.7 N/mm ²

PERFORMANCE PROPERTIES AS PER IS 15477:2019 (TYPE 5 T S2)

PROPERTIES	REQUIREMENT	RESULTS
Tensile Adhesion: Dry Condition	Minimum 2.0 N/mm ²	≥2.5 N/mm ²
Tensile Adhesion: Wet Condition	-	≥1.5 N/mm ²
Shear Adhesion: Dry Condition	Minimum 6.0 N/mm ²	≥6.5 N/mm ²
Shear Adhesion: Heat Ageing	Minimum 3.0 N/mm ²	≥6.5 N/mm ²
Shear Adhesion: Wet Condition	-	≥5.5 N/mm ²
Slip Resistance (T)	≤0.5 mm	≤0.12 mm
Deformability (S2)	≥5 mm	>5 mm

THEORETICAL COVERAGE

2-4 kg/m² for 1.5 mm to 3 mm bed thickness

NOTE: Coverage will vary depending on substrate smoothness and evenness.

LIMITATIONS & PRECAUTIONS

- Strictly keep to the mixing ratio of Part A: Part B:: 4 : 1, (by weight). For partial mixing, weigh the two parts precisely.
- Workability times may vary considerably, depending on environmental conditions, and the temperature of substrate and environment.
- Protect against direct rain for at least 12 hrs after application.
- Do not lay on substrates subject to moisture rising or which are not completely cured. Before application the substrate should be in a completely dry condition.
- During rain, avoid application that is open to sky. For any special application, please seek the advice of Trubuild technical service team.

SHELF LIFE

24 Month from the date of manufacturing. To be stored in a cool & dry place in temperatures between +10 °C to +35 °C in its original unopened condition. Keep away from direct sunlight/rain.

HANDLING PRECAUTIONS

- Use mask, nose cover and hand gloves during application.
- Epoxy resin may cause irritation when in contact with the skin. Hence, during application, avoid contact with skin and eyes.
- If it comes into contact with skin accidentally then use suitable resin removable cream and then wash the area with soap and water. If irritation continuous, then seek medical help.
- In case of contact with eyes, rinse it with clean water and seek immediate medical help.
- If swallowed accidentally then take immediate help of medical professional. Do not induce vomiting without advice of a medical doctor.
- For more safety related information about the material, please refer material safety data sheet.

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