

ShaliFlex® PU T

2K Elastic High-Performance Adhesive for Ceramic Tiles and Stone Materials



STP Limited

Description

ShaliFlex® PU T is two components polyurethane based 100% solid rection adhesive with no vertical slip-on deformable substance. It is classified as R2T & IS-15477-2019 Type 5.

Product Information

Colour, Mixing Ratio	Component A = White paste; Component B = White paste Component A : Component B = 4:1 (w/w)
Handling & Storage	Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Packaging	Available in 4 kg unit pack (3.2 + 0.8 kg).
Shelf Life	12 months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 38°C.
Handling Precautions	As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

Technical Characteristics @ 27°C, 55% RH

Property	Method	Result
Adhesive thickness, mm	--	2 - 10
Pot life, minutes	ASTM D 2471	> 40
Open time, minutes	EN 12004-2	50
Adjustability, minutes	--	> 40
Vertical Slip, mm	EN 12004-2	≤ 0.5
Density, gm/cc <ul style="list-style-type: none">• Component A• Component B• Mix	ASTM D 1475	1.51 ± 0.03 1.72 ± 0.03 1.55 ± 0.02
Pull off adhesion strength on concrete, MPa	EN 12004-2	> 3 (Concrete failure)
Initial Shear adhesion strength, N/mm ²	EN 12003	2.6
Shear adhesion strength after water immersion, N / mm ²		2.0
Set to light foot traffic, hours	--	12 - 24
Ready to use, days	--	7
Coverage, kg/m ² * <ul style="list-style-type: none">• Mosaic and small tiles (trowel no. 4)• Normal size tiles (trowel no. 5)• Large size tiles, marbles, stones	--	2.5 3.5 5

*May vary upon surface roughness, porosity, application methodology

Application Information

- ✓ **Substrate Temperature** - +10°C min / +40°C max
- ✓ **Ambient Temperature** - +10°C min / +40°C max
- ✓ **Relative Humidity** - 80% (max)

Field of Application

- **ShaliFlex® PU T** is indented for indoor and outdoor floor, walls.
- Ideal for marble and natural stone that tends to form stains and sag in the presence of humidity.
- Suitable for vitrified tiles, ceramics, large formats, low thickness slabs and natural stone.
- Floors and walls in polyurethane resin, glazed tiles, cement-based and resin floor tiles, porcelain tiles - wood, metals, rubber, PVC, linoleum, glass surfaces.

Advantages

- Easy and light to spread.
- Open and adjustability time \geq 40 minutes.
- Excellent durability and resistance to ageing.
- Perfect adhesion to all surfaces used in building.

Application Methodology

➤ Surface Preparation

- Substrates must be compact and consistent, free from dust, oil and grease, free from any rising damp, with no loose, flaky, or imperfectly anchored parts.
- The surface must be stable, without cracks and have already completed the curing period of hygrometric shrinkage.
- Uneven areas must be corrected with suitable smoothing and finishing products.

➤ Mixing

- **ShaliFlex® PU T** is prepared by mixing together parts A and B from the bottom upwards, using a low-rev (\approx 400 / min.) helicoidal agitator, respecting the preset ratio of 3.2 : 0.8 of the packs.
- Pour part B into the bucket containing part A, being careful to mix the two parts uniformly until a smooth, even coloured mixture is obtained.
- The user must mix a quantity of adhesive which can be consumed within 1 hour at +27 °C / 55% R.H.

➤ Application

- **ShaliFlex® PU T** must be applied with a suitable, toothed trowel of the type and dimensions most appropriate for the format and type of tiles used.
- Using the smooth part of the trowel, apply a fine layer of product, pressing down onto the surface in order to ensure maximum adhesion.
- Press down each tile into the ribbed adhesive to allow for maximum coverage of the surface.
- Apply firm pressure to the tiles to ensure good contact and covering of the back.
- In environments subjected to heavy traffic, in external applications and wherever high-elasticity fixing system is required, use the double-spread technique to ensure 100% application of the product to the rear of the tiles.

Precautions

- ✓ Do not use in contact with polystyrene or on surfaces which are not fully cured and subjected to moisture rising.
- ✓ Do not use partial quantities. A wrong mixing ratio could cause damage during the curing process.
- ✓ Do not use **ShaliFlex® PU T** to bond transparent glass materials.

Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

Health and Safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet**.

- Avoid contact with eyes and skin.
- Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Ensure that there is adequate ventilation in the area where the product is being applied.
- Do not breathe in vapor or spray mist.
- This product is flammable.
- Keep away from sources of ignition.
- In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- In case of skin contact, wash with soap and plenty of water. Get medical attention if irritation develops or persists.

Cleaning & Maintenance

Residues of **ShaliFlex® PU T** can be cleaned from tools and covered surfaces with STP Thinner while the adhesive is still fresh. Once cured, the adhesive can only be removed by mechanical means.



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing and Insulation ■ Road Surfacing
- Sealants and Additives ■ Pipeline Coating
- Protective / Anti-Corrosive Coating ■ Epoxy Flooring
- Grouts / Admixtures ■ RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



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