

ShaliBond® TPE

2K Thixotropic Epoxy Adhesive for Thermoplastic Elastomeric Sealing Tape



STP Limited

Description

ShaliBond® TPE is two components 100% solids, non-sag, and multipurpose epoxy bonding agent for horizontal, vertical and overhead applications. It is used to bond **ShaliTape® Flex**; Thermoplastic Elastomeric (TPE) based waterproofing joint sealing tape to different substrates.

Product Information

Form, Colour, Mixing Ratio	Solvent free thixotropic Resin; Component A = White, Component B = Black, Component A : Component B = 3:1 (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 6 kg & 30 kg unit pack.
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
Recommended application thickness, mm		1 - 1.5
Pot life, minutes	ASTM D 2471	35 - 50
Volume Solids, %	IS 101-8-6	100
Overcoat time, hours	IS 101-3-1	12 - 16
Density, gm / cc ✓ Component A ✓ Component B ✓ Mix	ASTM D 1475	1.95 ± 0.03 1.85 ± 0.03 1.93 ± 0.02
Pull off adhesion strength on concrete, MPa	ASTM D 4541	>1.6 (Concrete failure)
Compressive Strength, MPa ✓ 1 day ✓ 7days	ASTM C 579	40 - 45 50 - 55
Service temperature, °C	---	-20 to +50

Application Information

Strip Width (mm)	Strip Thickness (mm)	Consumption, kg / meter tape length*
100	1	0.7 kg / m
150		1.0 kg / m
200		1.2 kg / m
100	2	0.9 kg / m
150		1.1 kg / m
200		1.4 kg / m

*May vary upon surface roughness, porosity, application methodology

- ✓ **Substrate Temperature** - +10°C min. / +40°C max.
- ✓ **Ambient Temperature** - +10°C min. / +40°C max.
- ✓ **Relative Humidity** - 85% (max.)

Field of Application

ShaliBond® TPE is a 2K Epoxy adhesive for **ShaliTape® Flex**. These systems are used for various applications such as:

- Expansion Joint Treatment
- Construction Joint Treatment

Advantages

- Solvent free
- Fast curing.
- Suitable to apply overhead, vertical and horizontal applications.
- No primer needed.
- Excellent adhesion to many materials.

Application Methodology

➤ Surface Preparation

- **Concrete:** The area to be treated must be sound and free from adhesion inhibiting substances such as dust, laitance, grease, rust, etc. Substrates must be prepared mechanically using suitable abrasive blast cleaning, needle gunning, light scrubbing, and bush hammering, grinding or other suitable equipment to achieve an open textured gripping surface profile.
- **Steel:** Surfaces must be prepared mechanically using suitable abrasive blast cleaning, grinding to bright metal finish in accordance with SA 2 & 2½ .

➤ Mixing

- Mix part B into part A together for at least 2 minutes with a mixing spindle attached to a slow speed electric drill (max. 500 rpm) until the material becomes smooth in consistency and a uniform light grey colour is obtained.
- Avoid aeration while mixing.
- Then, pour the whole mix into a clean container and stir again for approx. 1 minute to keep aeration at minimum.

➤ Application

- Apply **ShaliBond® TPE** by hard brush, trowel or putty blade (for detailed application, please refer to **ShaliTape® Flex** product data sheet).

Precautions

Protect uncured product from rain & moving water. Once hardened no curing procedures are required.

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 vapour 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

Clean all tools immediately after use with STP Epoxy Thinner. Do not allow the material to harden.



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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