

ShaliBond Concrete

2K Epoxy Bonding Adhesive / Primer for Concrete



STP Limited

Description

ShaliBond Concrete is a 100 % reactive, solvent free bonding agent for old concrete with new concrete as well as two concrete pre-cast blocks. It is supplied as a two-component material in pre-weighed quantities ready for on-site mixing and use. ShaliBond Concrete FS suitable for cold weather working can be made available on specific request.

ShaliBond Concrete can be used as moisture insensitive primer also for concrete surface.

It conforms to ASTM C 882 : Type II, Grade 2, Class C.

Characteristics - Physical

Theoretical Coverage, grm/m ² /coat		Water Absorption, %	< 0.2
• As primer	200 - 250	Gel Time, minutes	30
• As Bonding Agent	250 - 300	DFT in microns	150 - 200

Characteristics - Technical

Property	Method	Result
Compressive Strength, MPa	ASTM C579	> 65
Tensile strength, MPa	ASTM D 638	> 20
Shear bond Strength, MPa	BS 6319 Pt 4	> 10
Pull Off bond strength, MPa, Concrete failure	ASTM 4541	> 2.5

Application

- Bonding old concrete with new concrete / flooring.
- Bonding two concrete pre-cast blocks.
- Priming / Sealing for roads, bridges. pavements, loading bays and factories.
- Bonding Toppings / Floor and Joint.

Advantages

- More flexible than high modulus systems to take additional movement.
- Excellent adhesive for bonding together concrete, steel, or wood materials
- Bonds fresh concrete toppings to harden old concrete slabs.
- Protects concrete substances against chemical attack including most acids and caustics.
- May be extended with sand or aggregate for thick applications and mortar repairs.
- Designed for use at temperatures of 10 °C and above.

Application Methodology

➤ Surface Preparation

- Ensure that concrete surface is clean, sound, rough and is free from any standing water, oil, dirt, debris, paint, unsound concrete or other contaminants.
- Ensure that temperature is in the range of 10 °C – 40 °C.

➤ Material Preparation

- Stir Component A (Resin) for 2-3 minutes using drill type mixer till homogenous mix is obtained.
- Mix entire Comp B (Hardener) to Comp A (Resin) – **not the reverse** and stir thoroughly till homogeneous mix is obtained.

- Both Component A & B comes in factory pre-weighed quantity in the ratios of 2.7 : 1 by weight.
- After stirring, wait for 5 minutes to ensure escape of entrapped air.

➤ Application of Material

- Apply prepared **ShaliBond Concrete** by roller / squeegee / airless sprayer in a uniform fashion.
- Do not allow the material to puddle.
- Extremely porous surfaces may require a second coat for proper ultimate performance.
- **ShaliBond Concrete** can be used as moisture insensitive primer where the concrete moisture is between 5 – 7 %

Cleaning & Maintenance

Clean tools and equipments with solvent such as Xylene, or toluene.

Health & Safety

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Packing

Available in 2 kg x 10 for each of Component A and Component B in a carton box.

Storage

Store in cool dry place under the shed away from heat.

Shelf Life

12 months in original unopened sealed conditions.



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



Advisory Cell: +91 81302 81114