

# ShaliBond Concrete

2K Solvent Free Long Pot Life Epoxy Bonding Agent



## Description

**ShaliBond Concrete** is a 100% reactive, solvent free bonding agent for old concrete with new concrete. It can be applied to both dry and damp surfaces and adheres to most substrates after proper preparation.

## Approval / Standards

ASTM C 881: Type II, Grade 2, Class B & C

## Product Information

<b>Form, Colour, Mixing Ratio</b>	Comp A = unpigmented free flowing liquid; Comp B = Black liquid Component A : Component B = 2:1 by weight
<b>Handling &amp; Storage</b>	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.
<b>Packaging</b>	Available in 6 kg and 2 kg unit pack comprising 4 kg of Comp A & 2 kg of Comp B and 1.33 kg Comp A & 0.67 kg Comp B respectively.
<b>Shelf Life</b>	12 months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 38°C.
<b>Handling Precautions</b>	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 @ 28°C, 55% RH

Property	Method	Result
Pot life, hours, 100 gm sample	--	3
Recoat time, hours	--	7 - 10
Mixed density, gm / cc	--	1.61 ± 0.02
Consumption, kg / m <sup>2</sup>	--	0.4 - 0.6
Full cure, days	--	7
Compressive Strength, MPa, 7 days	ASTM C 579	> 60
Tensile strength, MPa, 7 days	ASTM D 638	> 20
Shear bond Strength, MPa, 7 days	ASTM C 882	> 10
Pull Off bond strength, MPa,	ASTM 4541	> 2.5 (concrete failure)

\*Depending upon surface condition, concrete profile

## Field of Application

- Bonding old concrete with new concrete / flooring.
- Steel bonding.
- Priming / Sealing for roads, bridges, pavements, loading bays and factories.
- Bonding Toppings / Floor and Joint.

## Advantages

- Excellent adhesive for bonding together concrete, steel, or wood materials
- Bonds fresh concrete toppings to harden old concrete slabs.
- Low viscosity - Easy to apply as primer.
- Protects concrete substances against chemical attack including most acids and caustics.
- May be extended with sand or aggregate for thick applications and mortar repairs.

## Application Methodology

### ➤ Surface Preparation

- Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion. Mechanical wire brushing may be appropriate for small areas.

- Spalled concrete should be cut back to sound concrete and spall filled with **ShaliBond Concrete** sand filled mortar. Conventional concrete curing compounds should be removed before application.
- Ensure that temperature is in the range of 10°C - 40°C.
- **Material Preparation**
  - Thoroughly stir Part A, add Part B (thoroughly stirred) and blend thoroughly using a slow speed mixer fitted with a suitable paddle.
  - After stirring, wait for 5 minutes to ensure escape of entrapped air.
- **Application of Material**
  - **ShaliBond Concrete** may be placed using a brush or roller and applied evenly across the whole surface. Subsequent coats should be placed within 30-45 minutes and the **ShaliBond Concrete** should still be tacky.
  - For bonding fresh concrete this should be applied into a still tacky surface. If the tack has gone reapply **ShaliBond Concrete**.
  - **ShaliBond Concrete** can be used as primer where the concrete moisture is between 2 - 5 %.

### 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**.

- Please observe the precautionary notices displayed on the container.
- Use under well ventilated conditions.
- Do not inhale spray mist.
- Avoid skin contact.
- Spillage on the skin should immediately be removed with suitable cleanser, soap and water.
- Eyes should be well flushed with water and medical attention sought immediately.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

### Cleaning & Maintenance

- Clean all tools immediately after use with STP Thinner only. Do not allow the material to harden.
- Hardened / cured material can only be mechanically removed.



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