

ShaliBond LAM

Thixotropic Epoxy Adhesive for Bonding Reinforcement



Description

ShaliBond LAM is a two component, solvent free, thixotropic, structural adhesive especially formulated for bonding carbon fiber **ShaliLam C** laminates to concrete substrates such as beams, columns, slabs etc. structural strengthening.

Technical Characteristics @ 27°C, 55% RH

Colour <ul style="list-style-type: none">Component AComponent BMix	White Black Grey	Compressive Strength, MPa <ul style="list-style-type: none">3 days7 days	> 70 > 85
Open time @ 25 °C, minutes	75 - 85	Service Temperature, °C	-30 to +55 (When cured at >25°C)
Mixing Ratio, A : B (w / w)	2 : 1		
Pot life @ 25 °C, 100 g, minutes	50 - 60	Mix Density, kg / L	1.90 ± 0.02
Theoretical Coverage, kg / m ² / mm*	2	Sag Flow	Non sag upto 3 - 4 mm
Shrinkage, %	< 0.05	Pull off adhesion test, MPa, 7 days	> 2.5 (Concrete failure)
Heat Deflection, °C (ASTM D 648)	> 50		

* Depending upon roughness & absorbcency of the substrate.

Field of Application

Adhesive for bonding structural reinforcement, particularly in structural strengthening works including:

- Steel plates to concrete
- ShaliLam C** plates to concrete, brickwork, timber and steel

Advantages

- Two-component Epoxy Resin Based Adhesive
- High Bond Strength
- Rapid strength development even at low temperature
- High Mechanical strength
- Tested for strengthening of component using carbon fiber laminates
- Damp tolerant

Application Methodology

- Ensure that the surface is free from dust, vegetation, debris, oil residue, and is sound and fully cured.
- Ensure that concrete should be cured for at least 28 days, (depends on minimal requirement of strengths) and have an open textured profile. Any cement laitance should be removed and free of all loose or friable particles.
- Add Component B to Component A and mix thoroughly for 3 minutes until homogeneous grey colour mix is achieved, using a slow speed drill (500 - 600 rpm) fitted with a suitable mixing paddle. Mix only that quantity which can be used within its pot life.
- Apply **ShaliBond LAM** on prepared surface of **ShaliLam C** with a spatula / trowel / notched trowel.

Cleaning

Clean all tools and application equipment with STP Epoxy thinner immediately after use. Hardened or cured material can only be mechanically removed.

Health & Safety

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

Packing

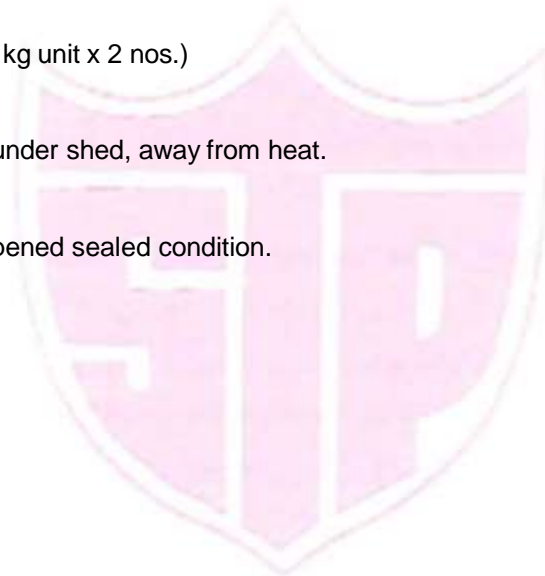
Available in 12 kg pack (6 kg unit x 2 nos.)

Storage

Store in a cool dry place, under shed, away from heat.

Shelf Life

12 months in original unopened sealed condition.



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