

Product Description

La StrucWrap EP is a 100% solvent free epoxy resin system designed for structural strengthening using glass / carbon fibre wrap system. La StrucWrap EP is two component epoxy matrix material can be used as saturant and primer.

Uses

La StrucWrap EP is a high strength epoxy resin system used to substrate wet priming and saturation of fabric.

Epoxy matrix with fibre wrap creates a high strength composite to improve strength and stiffness of RCC elements. It is ideal for seismic retrofitting also.

Typical applications include piers, columns, beams, slabs, retaining walls, masonry bridges, pipes, chimneys, tunnels and other structures.

Features & Benefits

- **Excellent Mechanical Properties** – Enhances the strength properties as a composite.
- **Excellent Adhesion** – Adheres to fabric and primed concrete
- **Chemical resistant** – excellent resistance to acids & alkalis
- **Low viscous** – Facilitates excellent penetration of resin into the fabric and also as a primer in porous concrete.
- **Excellent Bond Strength** – Can be effectively used in space constrained areas.
- **Economical** – Easy to install, time & labour saving

Advantages

- 100% Solvent free, pure component system
- Good high and low temperature properties
- Long working time
- High elongation
- Ambient cure

Technical Properties

La StrucWrap EP (Saturant)

Colour	Pale Yellow
Application Temperature	15°C-40°C
Viscosity	Low viscous
Mixed Density	1.10 ± 0.04
Pot Life @ 27°C	60 mins
Cure time	7 days at 30°C
Tensile Strength	>18 MPa
Flexural Strength	>34 MPa
Compressive strength	65 MPa in 7 Days
Bond Strength	> 2.5MPa

La StrucMix Putty (Epoxy Putty)

Density	1.6 gms/cc
Pot Life	40 mins @ 30°C

Application Instructions

Preparation

Concrete surfaces to be treated shall be free from oil residues, de-moulding agents, curing compounds, grout holes and protrusions. Edges and sharp corners to be rounded off by diamond grinding and finishing with a thin repair mortar. At the time of application the surface shall not have any free moisture. The concrete surface to be wrapped shall be structurally repaired prior to treatment, for corrosion induced damage/ structural damage, by epoxy grouting and epoxy/polymer modified La Greens repair systems. Any depressions in the concrete substrate shall be repaired with La StrucRep EM to even out undulations.

Mixing

The mixing ratio of Base 100 : Hardener 50

Before mixing, the contents of each can i.e., base and hardener should be thoroughly stirred to disperse any settlement, which may have taken place during storage. The base and hardener are emptied into a suitable container and the material is thoroughly mixed for at least 3 minutes. Mechanical mixing using a heavy-duty slow speed (300 - 500 rpm), flame-proof drill, fitted with a mixing paddle is recommended.

Primer

The mixed material of La StrucWrap EP shall be used as primer and is applied over the prepared and cleaned surface. The application shall be carried out using a brush/roller and allowed to dry for about 24 hours before application of epoxy putty. The drying time of saturant is dependent on atmospheric temperature.

Epoxy Putty

The primed surface shall be finished with La StrucMix Putty to cover the pinholes and undulations in the concrete thereby ensuring 100% contact of Carbon fibre wrap.

La StrucWrap EP (Saturant)

The mixed material of StrucWrap EP is applied over the repaired surface using a roller. The fibre clothe should be laid directly on the first coat whilst wet and should be pressed in and smoothened with a roller. Second coat should be applied no more than 24 hours on the installed fibre.

Top protective coat

If UV resistance is required then two additional coats of two component aliphatic based coating is recommended.

Curing

The coatings will become tack free in approximately 4-6 hours and be fully cured in 7 days.

Cleaning

Tools and equipment should be cleaned with xylene or, other solvent immediately after use. Hands and skin shall be washed with soap or an industrial hand cleaner.

Coverage

La StrucWrap EP	Coverage
As a Primer	8-10m ² /kg
As a Saturant	1.3-1.5kg /m ² **
La StrucMix Putty (Epoxy Putty)	1.6kg/m ² @ 1mm Thickness

** The Consumption of epoxy matrix depends on the texture of concrete surface and thickness of fibre

Package

La StrucMix Putty	12.6kg Pack
La StrucWrap EP (Saturant cum Primer)	Base : 25kg & 30kg Hardener : 25kg & 30kg
Mixing Ratio	Base 100 : Hardener 50

Shelf Life

If stored in original unopened containers under above mentioned conditions, shall have a shelf life of 12 months. If stored at high temperature or highly humid conditions the shelf life may get reduced.

Health & Safety

Some people are sensitive to epoxy resin systems and may develop dermatitis on skin contact. Rubber gloves and/or barrier creams, protective clothing, goggles and respirator shall be worn while handling the materials. Sufficient mechanical and/or local exhaust ventilation shall be provided to maintain easy working conditions.

If contact with skin or eyes occurs, washing with plenty of water is suggested. Solvent should not be used. If irritation persists, immediate medical advice shall be sought. Smoking is prohibited during application/ handling of the product. Gloves & protective clothing shall be worn while handling & application of La StrucWrap GF fabric.

Important: La Greens India Pvt. Ltd., products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, La Greens India does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.



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