

ShaliBond® GCW 310

2K Epoxy Impregnation Resin for Structural Strengthening



STP Limited

Description

ShaliBond® GCW 310 (formerly known as ShaliWrap® Saturant) is a two component, epoxy based saturant & impregnating resin, designed for structural strengthening applications for the wet application process along with **ShaliWrap CF** or **ShaliWrap GF**.

Characteristics

Adhesion to concrete	Excellent	Pot Life, Minutes @ 30°C, minutes	75
Theoretical Coverage, m ² / kg*	1 to 1.25	Heat deflection temperature after 7 days at 30°C, (ASTM D 648) °C	50
Tensile Adhesion Strength N / mm ² , ASTM C-881 (after 1 Day)	≥ 4	Mixing ratio (A: B)	100 : 35
Drying time, 30°C, hrs. Touch dry Hard dry	2	Modulus of elasticity in tension in 7 days, N / mm ²	2200 ± 200
	15	Application Temperature, °C	0 - 45
Modulus of elasticity in Flexure in 7 days, N / mm ² (ASTM D 790)	2700 ± 300	Tensile Strength in 7 days (ASTM D 638), N / mm ²	40 - 45

Application

- Impregnating resin for **ShaliWrap CF / GF** fabric reinforcement for the wet application method
- Primer resin for the wet application system

Advantages

- Easy to mix and apply by trowel and impregnation roller.
- Manufactured for manual or mechanical saturation methods.
- Good adhesion to many substrates.
- High mechanical properties.
- Extra pot life.

Application Methodology

➤ Surface Preparation

- Prepare the surface by mechanical grinding or other suitable method.
- Remove dust, flakes, oil, grease or other loose foreign particles by sand blasting, iron brush or compressed air to achieve a profiled open textured surface.
- Remove old painting using surface grinder.
- For best bond, concrete surface must be slightly textured.
- Surface defects such as blow holes, honeycombed must be repaired with epoxy adhesive or mortar **ShaliBond® 41** or **ShaliBond® 51**.
- Cracks more than 0.25 mm should be injected with low viscous epoxy injection resin **ShaliGrout® EI**.
- Ensure that concrete must be cured at least 7 days and moisture content is below 5%.

➤ Material Preparation

- Mix **ShaliBond® GCW 310** parts A+B together for at least 3 minutes with a mixing spindle attached to a slow speed electric drill (max. 300 rpm) until the material becomes smooth in consistency and uniform color. Avoid aeration while mixing. Then, pour the whole mix into a clean container and stir again for approx. 1 more minute at low speed to keep air entrapment at a minimum. Mix only that quantity which can be used within its pot life.

➤ Application of Material

- Apply the material by wet process using brush roller or through impregnation rollers.
- Refer to the method statement of ShaliWrap application.

Cleaning

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

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 contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of contact with eyes, wash immediately with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Packing

Available in 5.4 Kg units consists of 4 kg Component A and 1.4 Component B.

Storage

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

Shelf Life

12 months in original unopened sealed condition.



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
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Advisory Cell: +91 81302 81114