

PS Saturant

two component, 100% solids, grey pigmented saturant



Description	PS Saturant is a two-component, 100% solid, grey-pigmented, impregnation resin for structural strengthening applications using FRP composites.
Uses	<ul style="list-style-type: none">▪ Impregnating resin for wet method of Fibre wrapping application.▪ As a primer for wet application method
Characteristics / Advantages	<ul style="list-style-type: none">▪ Can be used for both manual and mechanical impregnation methods▪ Superior mechanical properties▪ Excellent adhesion to many substrates.▪ Extended pot life▪ Easy to mix and apply by trowel and impregnation roller

Product Information

Packaging	5kg two component pack
Appearance	Gray viscous liquid
Coverage	<ul style="list-style-type: none">▪ 200 ~ 350 GSM fiber sheet: 0.6 to 0.8 kg/m²▪ 350 ~ 450 GSM fiber sheet: 0.8 to 1.0 kg/m²▪ 750 ~ 900 GSM fiber sheet: 1.2 to 1.4 kg/m²
Shelf life & Storage Conditions	PS Saturant must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf life is 12 months when stored as above.

Mechanical / Physical Properties

Typical properties	Mixed Density	1.35 kg/litre
	Volume of solids	100%
	Mixing Ratio, Part A: Part B	80:20 (by weight)
	Setting time	8 Hours at 25°C
	Mixed viscosity at 25°C (cps.)	3000 ± 500
	Full cure	7 days
	Pot life	25 minutes @25° C
	Compressive strength (ASTM C579)	> 40 MPa at 1 Day > 60 MPa at 7 Days
	Tensile strength (BS:6319, pt 7)	> 19 MPa
	Flexural strength (BS:6319, pt 3)	> 31 MPa

Note	Pot life of product starts soon after component parts that forms a product are mixed thoroughly. Stipulated 25 minutes pot life is for standard temperature of 25°C. For elevated temperatures, pot life may reduce considerably. For longer pot life, it is recommended to ensure that component parts of products are cooled before mixing.
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Application Instructions

Mixing

Stir the Part A (Base) component first. Add Part B (Hardener) and mix well using slow-speed mixer for at least 3 minutes before use

Application

Apply first coat of fully mixed PS Saturant to primed concrete substrate using roller or brush. Place the PS fiber sheet and roll in the longitudinal direction of the fibers two or three times using a deforming roller and rubber spatula in order to impregnate the resin into the fibers and to deform the resin coat. For joining strips of fiber sheet, a 15 cm overlap length is required in the main direction. The additional resin must be applied at the overlap location on top of the outer layer of fiber sheet to be overlapped. Apply the second coat of PS Saturant ensuring total saturation of the PS fiber sheets. Where more than one layer of fiber sheet is to be applied, the above application method for PS Saturant should be repeated. In case of protection with plaster, ensure to dry-shake oven-dried fine quartz grains to assist bond strength with overlay.

Finishing

Surfaces should be top-coated within two days when exposed to direct sunlight or in other cases within one week to assure proper adhesion of topcoat to saturant. Surfaces shall be protected with the protective mortar/plaster application

Health & 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 containing physical, ecological, toxicological and other safety-related data.

During use, avoid inhalation and contact with the skin or eyes. Wear suitable protective clothing - eye protection, gloves and respiratory equipment (particularly in confined spaces).

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Legal Notes

The information and in particular the recommendations relating to the application and end use of products are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with recommendations. In practice the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information or from any written recommendations or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose reserves the right to change the properties of its products. The Proprietary fights of third

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Parties must be observed. All orders are accepted subject to our current terms of sale and delivery.

Users must always refer to the most recent issue of the local product Data sheet for the product concerned copies of which will be supplied on request.

IPSS Industrial Products

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