

Epo Bond underwater

Epoxy Resin Solvent Free Data Sheet

Hand Wet Laying by Roller/Brush, Applied Under-Water [Damp Surfaces], Rapid Setting Type on Metal, Iron, Aluminium, Plastic or Reinforced Concrete Column, Beam, Slab at Jetties, Piers & Marines.

High Performance, Chemical Resistance & Protection against Corrosion

Epo Bond underwater 3090 Coating Type

Solvent-free epoxy resin for new & existing repair structures. To protection coating for reinforced structural & metal/iron/aluminium/timber/plastic

Epo Bond underwater 3090 Adhesive Type

Underwater application of epoxy resin for composite laminated CFRP, FRP & Textile Fabric system.

**High Peel Strength (Cleavage Strength) up to 4 N/mm²
Ultra High Shear Strength up to 15 N/mm²
Thickness Applied: From >0.35mm to 4.50mm thick**

Product Application: **Epo Bond underwater**, is medium-viscosity solvent-free epoxy resin contains a modified polyamidoamine, the offers high performance aqueous system, hardness, chemical resistance and protection against corrosion. The Wet Laying Coating or Laminating for Structural Repair Resin types are highly recommended applied on underwater and damp surfaces.

Advantage & Properties: The specific advantage offered by solvent-free Epoxy Resin. Better adhesion, even on damp or not fully cured concrete, the system recommended for concrete, metal, iron, aluminium, plastic which also be applied on other mineral substrates, as stones, bricks wall.

- ❖ Adhesion is always good on damp mineral substrates surfacing.
- ❖ Very good flow mechanical properties following optimal cure.
- ❖ Good in no dust from substrate coatings easy to clean, improved visibility.
- ❖ Excellent of chemical resistance.
- ❖ Adhesion promoting primers between old with new concrete.
- ❖ Non-toxic, the resin has been cured.

The chemical composition of resin and hardener is such that it is approval for food contact applications in accordance with recommendations made by the Federal German Board of health (Bundesgesundheitsamt)

Surfaces Preparation Concrete must cured at least 28 days and has with minimum Compressive Strength of 5,000 psi. Those cement slurry, plaster droppings, etc. must be remove, the surface of concrete free of oil, grease, and other loose particles and contaminations.

Mixing: Supplied as two-component system. Mix materials with low speed drill and paddle for approximately Four minutes. Insure a thorough mix. Never mix more material than can be used in two (02) minutes. Do not apply Epoxy when ambient or surface temperatures are below 50 °F

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Method of Application Surface to be repaired or sealed must be clean and sound. Concrete must be free of dust, laitance, sealers, grease and other bond inhibiting contaminants. Surface shall be recommended for priming.

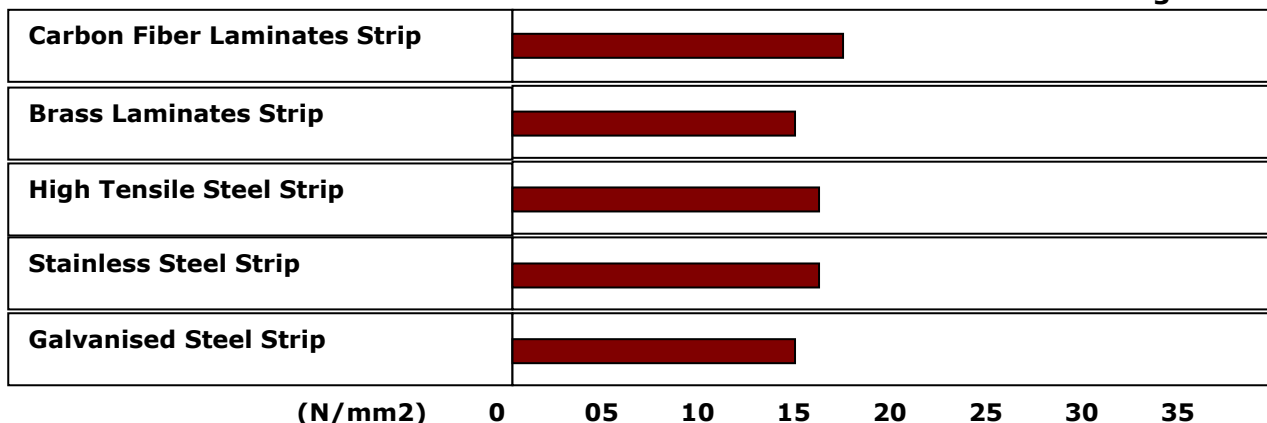
New concrete shall be at least of aged 28 days before coating. Old concrete surface must be cleaned of dirt, dust or other contamination with a thorough floor scrubbing. Apply **Epo Bond underwater**, by hand brush or roller, semi-smooth finish, can be kept in spotless hygienic condition and are of attractive appearance.

Thickness From >0.35mm until 4.50mm thick, depending of base structure

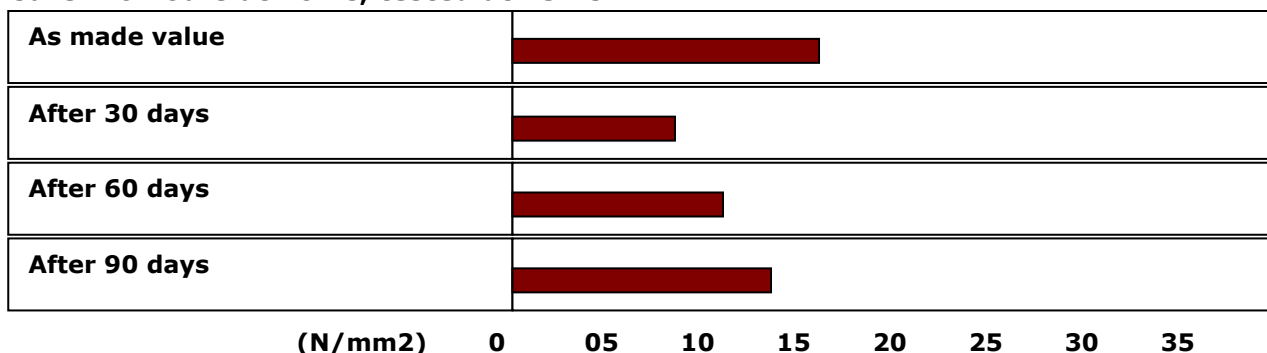
Packing & Size: 5.00 kg per pack

Available of Color Standard is Grey or Black [Special Color also available]

Average of Lap Shear Strength of Typical Strip CFGP to Strip GFRP OR Metal to Metal Joint Cured for 16 hours at 40 °C and tested at 25 °C Pretreatment – Sand Blasting



Lap Shear Strength Versus Tropical Weathering (Typical Average Values) Cure: 16 hours at 40 °C, tested at 25 °C



Storage 18 months from date of manufacture in original sealed container stored undercover 25 °C, at ambient temperature away from heat, and dry conditions. For clearing equipment, use special solvent liquid.

Handling Precautions Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the

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IMPORTANT:

corresponding product safety data sheets and the brochure "Hygienic Precautions for Handling Plastic Products"

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Properties of Specification

		Epo Bond underwater 3090 Coating Type	Epo Bond underwater 3090 Adhesive Type
Compressive Strength	DIN 53454	70 N/mm ² [±5]	68 N/mm ² [±5]
Flexural Strength	DIN 53452	82 N/mm ² [±7]	80 N/mm ² [±5]
Tensile Strength	DIN 53455	52 N/mm ² [±5]	50 N/mm ² [±5]
Adhesion Strength	at 25 °C	>2-4 N/mm ²	>2-4 N/mm ²
Elongation at Break	at 25 °C	2%	2.2%
Solid Volume		100% High Solid Resin	100% High Solid Resin
Viscosity	at 25 °C	7500-8500 mPa.s	30000-45000 mPa.s
Density	at 25 °C	1.05 g/cu. cm	1.08 g/cu. cm
Pot Life	at 25 °C	>05-60 minutes	>10-60 minutes
Cure Time	at 25 °C	0.50-4.00 hours	0.50-5.00 hours
Specific Gravity		1020 g/liter	1080 g/liter
Flash Point		> 55 °C	> 55 °C
Shore D Hardness	DIN 53505	75%	82%

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Health & Safety Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from **LAMACO Malaysia** on request and sent with each delivery.




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