

FIDPRIMER®
EPOXY RESIN TO PREPARE THE STRUCTURAL SUBSTRATE
TO BE STRENGTHENED WITH FRP OR SRP SYSTEMS



TECHNICAL GLOBAL SERVICES

FIDPRIMER is a two-component epoxy product, ideal to prepare the structural substrate to be strengthened with FRP or SRP systems. The application of this product is aimed to improve the bond characteristics between the substrate and FIDSATURANT or FIDPUTTY product used to impregnate the fibers of strengthening.



TECHNICAL DATA SHEET

Ultimate direct tensile strength at 7 days	>20	MPa
Ultimate direct tensile modulus of elasticity at 7 days	1200	MPa
Ultimate tensile strength by flexing at 7 days	>35	MPa
Ultimate compressive strength at 7 days	>40	MPa
Ultimate compressive modulus of elasticity at 7 days	1900	MPa
Thermal expansion at 7 days	6,21·10 ⁻⁵	C-1
Mixing ratio	by volume	A/B = 2/1
	by weight	A/B = 2/1
Density	A	1±0,05 kg/l
	B	1,1±0,05kg/l
Bonding to concrete at 7 days	>3,5	MPa
Color	Amber transparent	
Recommended layers	1	
Pot life	5°C	2 hours
	20°C	45 min
	30°C	25 min
Fuori tatto	5°C	9 hours
	20°C	5 hours
	30°C	3 hours
Quantity needed	0,2	kg/m ²
Optimal storage	10÷35	°C
Tool cleaning	Diluent for epoxy products	

*The properties of the composite have been determined according to the UNI and ASTM standards as indicated in the CNR-DT 200/2004 guidelines " Guide for the Design and Construction of Externally Bonded FRP Systems for Strengthening Existing Structures " .

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MATERIAL CHARACTERISTICS

Description

FIDPRIMER is a two-component tyxotropic epoxy resin product, without solvent.

Ideal for:

- Substrate preparation for installation of structural strengthening using composite materials for Reinforced-Prestressed concrete, Masonry, Natural stone, Timber. With Steel is not required FIDPRIMER.

Advantages:

- Easy to mix and install;
- Resistant to chemical agents and to environmental conditioning.

PACKAGES

Can of 6 kg. (4 kg part A + 2kg part B).
Drum of 30 kg. (20 kg part A + 10kg part B).

RECOMMENDATIONS

When managing the resin, protective clothing, gloves and glasses must be worn and instructions regarding the installation of the materials must be followed carefully.

Inhalation: breath fresh air and rinse out your mouth.

Skin contact: no special measures are needed.

Contact with eyes: rinse for at least 15 minutes; in case of use of contact lenses they must be removed and rinsed for at least another 5/10 minutes; If still painful seek medical care.

Ingestion: rinse the mouth by drinking water and inducing vomit. Seek medical care.

Yard storage: Keep in a dry covered area

APPLICATION

1. Surface preparation

Restore the substrate, better using a sandblaster machine to remove oils, grease, dust or any other loose materials from the surface. To remove the remaining dust must be used compressed air. Clean the reinforcements from eventual traces of rust and seal possible crevices. Crevices bigger than 25mm must be seal with special epoxy resin (see FIDPUTTY). Ensure a maximum substrate moisture content of 4%.

2. Resin mixing

Mechanically mix of component A before adding component B. When component B has been added, mix for approximately 5 minutes, at low speed, until a smooth mix has been obtained. To obtain a longer pot life is possible divide the mix in a small parts or make cold the two components before mixing.

3. Application

FIDPRIMER must be applied on the surface in a uniform way, with a paintbrush or roll.

QUALITY & CERTIFICATIONS

Material supply is accompanied by a certificate of origin of the material from the producer and the certificate of characterization of the mechanical properties issued by an Italian laboratory approved by the Ministry of Infrastructure and Transport according to Art. 59 of D. P. R. 380/2001 construction material sector following the law .1086/71, with Decree n.38194 of 14/01/1992 and followings.

LEGAL NOTES

The technical advice that Fidia S. r.l. Technical Global Services provides, orally or in writing, as assistance to the customer or installer on the basis of its experiences, corresponding to current scientific knowledge and practices, are not binding and do not demonstrate any legal or contractual obligation accessory with contract of sale. They do not exempt from liability buyer feel our products as regards their suitability for use. For the rest are valid our commercial conditions. Discrepancies that original content and/or use not involve any responsibility by the company's Fidia S. r.l.. The Client is obliged to check that this report, and the values are valid for the consignment of product of its interest and not be overcome, as replaced by subsequent editions and/or new formulations of the product. In doubt, please contact advance our Technical Office.

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