

FIDPUTTY®
EPOXY RESIN FOR PREPARATION OF UNEVEN SUBSTRATES
AND FOR INSTALLATION OF LAMINATE, REBARS AND
STEEL SHEETS AS FRP STRENGTHENING SYSTEMS



TECHNICAL GLOBAL SERVICES

FIDPUTTY is a two-component epoxy product, ideal to prepare the uneven structural substrate to be strengthened with FRP or SRP systems. This resin is also used to install laminate, rebars with Plate Bonding and NSM technologies even used to impregnate steel sheets (SRP).



TECHNICAL DATA SHEET

Ultimate direct tensile strength at 7 days	>8	MPa
Ultimate direct tensile modulus of elasticity at 7 days	9500	MPa
Ultimate tensile strength by flexing at 24 hours	>8	MPa
Ultimate tensile strength by flexing at 7 days	>25	MPa
Thermal expansion at 7 days	2,04·10 ⁻⁵	C-1
Mixing ratio	in peso	A/B = 4/1
Density	A (resin)	1,65±0,05 kg/l
	B (hardener)	1,65±0,05kg/l
Bonding to concrete at 7 days	>3,5	MPa
Color		Grey
Pot life	10°C	90 min
	20°C	45 min
	30°C	20 min
Quantity needed	Laminate (3÷5kg/m ²) Rebar and Tape (1,5÷3kg/linear meters of rebar) Putty (1,5kg/ m ² /mm of thickness)	
Application temperature	5÷40 °C	
Optimal storage	10÷30 °C	

PACKAGES

Can of 5 kg. (4 kg part A + 1kg part B).

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.

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

*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

FIDPUTTY is a two-component epoxy resin, without solvent: component A (resin) and component B (hardener), supplied in a different pre-dosed cans. Available in a normal and rapid curing.

Ideal for:

- structural installation of all products of the FIDASLAN series used for flexural and shear strengthening on Reinforced and Prestressed concrete, Masonry, Natural stone, Steel and Timber using NSM (Near Surface Mount bars) and Plate Bonding technologies;
- impregnation of all products of the FIDSTEEL series on Reinforced and Prestressed concrete, Masonry, Natural stone and Timber using the Manual Lay-Up technology;
- levelling out/fill in any small holes or gauges found in the substrate before the installation of FRP and SRP strengthening;
- repair of holes, gauges, scrapes;
- the filling of blow holes;
- levelling uneven surfaces.

Advantages:

- high strength;
- No-slump;
- Strong Adhesion;
- Chemical resistant;
- Impact resistant;
- No-shrink;
- Epoxy based;
- Easy to use and install;
- Excellent dielectric properties.

APPLICATION

1. Substrate preparation

FIDPUTTY is an epoxy repair material which should be used to level out/fill in any small holes or gauges found in the substrate prior to the installation of FRP and SRP systems.

For larger repairs the cementitious range of concrete repair products should be used.

Remove oils, grease, dust or any other loose materials from the surface.

Apply a coat of FIDPUTTY using a putty knife.

Filling all voids, scrapes and holes. To obtain a smooth surface prior to the application of the adhesive the putty can be sanded down. (The putty should be left 24 hours before sanding.)

2. Mixing

Mechanically mix component A before adding component B (see mixing ratio into the technical data sheet).

When component B has been added, mix for approximately 3 minutes until a smooth mix has been obtained.

Clean up.

3. Cleaning

Tools must be cleaned immediately after use with cleaning solvent for epoxy resin.

4. Curing

FIDPUTTY will cure at temperatures as low as 5°C although at lower temperatures cure is retarded.

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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