MasterBrace P 3500

Epoxy-polyamine-based primer from the MasterBrace FRP (Fiber Reinforced Polymer) system.

MATERIAL DESCRIPTION

MasterBrace P 3500 is a two-component, epoxy polyamine, low viscosity product, indicated to improve the adhesion efficiency to the support of the MasterBrace FRP system.

FIELDS OF APPLICATION

MasterBrace P 3500 is indicated as a consolidator and adhesion promoter for all types of substrates (with the exception of steel for which no priming is required) for which MasterBrace can be applied (concrete, masonry, wood, natural stone , etc).

COVERAGE

0,2 kg/m^2.

PACKAGING

5 kg unit: comp A 3.9 kg bucket; comp B 1.1 kg bucket.

STORAGE

Store the product in a covered, cool and dry place (10 ÷ 30 ° C) away from direct contact with the sun, fire or open flames. If the temperature drops below 10 ° C, the resin may show an increase in viscosity and the formation of lumps. In these cases, before using it, heat the packages by immersing (with the package closed) part of the can in hot water until the lumps disappear.

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Technical Information	
Mixing ratio	by volume 75% A; 25% B by weight 77% A; 23% B
Individual component densities A and B	A: 1 ± 0.05 kg / liter B: 1.1 ± 0.05 kg / liter
Color	Transparent amber
Recommended number of layers	1
Workability time a 5 ° C 20 ° C 30 ° C	 2 hours 45 min 25 min
Out of touch 5 ° C 20 ° C 30 ° C	 9 hours 5 hours 3 hours
Optimal storage	10 ÷ 35 °C
Application temperature	5 ÷ 30°C
Packs	comp. A, 3.9 kg bucket, comp. B, 1.1 kg bucket.
Consumption	0,2 kg/m^2

Essential characteristic		Performances
Adhesion to concrete after 7 days,	UNI EN 1542 (calcestruzzo tipo TC0,40)	> 3,5 MPa (support break)
Characteristics with direct drive after 7 days - Resistance - Elastic module	ASTM D638	 > 20 MPa 1200 MPa
Tensile strength for bending after 7 days	ASTM D790	> 35 MPa
Compression characteristics after 7 days - Resistance - Elastic module	ASTM D695	 > 40 MPa 1900 MPa
Coefficient of linear thermal expansion after 7 days,	ASTM D696	6,21·10-5°C-1

APPLICATION SHEET

PREPARATION OF SUBSTRATE

Non-degraded concrete: the surfaces of concrete elements that are still healthy must be prepared by sandblasting. Then clean the sandblasted surface with compressed air.

Degraded concrete: in the case of degraded structures, the entire damaged layer will be removed by scarifying, hydrodemolition or demolition using compressed air powered hammers and subsequent structural restoration with mortars from the MasterEmaco line. After the restoration, no sandblasting is necessary.

Any surface protuberances of the concrete must be smoothed. Sharp edges in the concrete must be rounded. The radius of curvature must measure at least 20 mm, considering that the greater the radius, the better the preparation.

APPLICATION

Mechanically mix component A before adding component B.

Mix component A with component B in the ratio prescribed in the packs for about one minute with a whisk drill at low speed until a uniformly colored mixture is obtained.

The useful application time may vary according to the ambient temperature and the quantity of Primer applied, factors which must therefore be taken into account.

The Primer will be applied regularly by brush or roller.

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ENVIRONMENTAL LIMITATIONS

Apply MasterBrace SAT 4500 and the reinforcement system with air and substrate temperatures between +10 and + 30 ° C.

Application at air and substrate temperatures below 10 ° C can be done by adopting special precautions, such as heating the substrate and the resin application environment to a temperature between 10 and 20 ° C (for a period of time until the resin has hardened), using suitable heaters. Do not apply the product at temperatures below 5 ° C as the polymerization time would be extremely lengthened.

The application must take place on a dry support, which has a humidity not exceeding 6% and with a relative environmental humidity not exceeding 85%.

The reinforcement applied must subsequently be protected from any rainwater until the resin has completely hardened.

Do not apply the system when the substrate is wet, when leaning or dew formation is expected.

The operating temperature range for the resin is between -10 and + 40 ° C (this value refers to the measured surface temperature of the resin and not to the ambient temperature). For different operating temperatures, the technical service of Master Builders Solution should be contacted.

SAFETY INSTRUCTON

When mixing, always wear gloves, goggles and suitable work clothes to avoid contact with the skin.

In case of accidental contact, wash the affected parts abundantly with soap and water or with an appropriate detergent.

Do not use solvents or thinners.

Do not breathe vapors and aerosols; the application in a closed environment must take place in conditions of continuous air exchange.

During use it is forbidden to drink, eat and smoke.

Observe the safety regulations for the use of flammable and solvent-containing products

OTHER SERVICES

For price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website www.master-builders-solutions.com/it-it or contact infomac@mbcc-group.com.

Scan the QR code to visit the product page and download the latest version of this datasheet.

Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

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