



We create chemistry

MasterBrace® P 3500 (Formerly known as Mbrace® Primer)

Epoxy Based Primer for MasterBrace® FRP System

DESCRIPTION OF PRODUCT

MasterBrace® P 3500 is epoxy based, solvent free, low viscosity primer developed for **MasterBrace® FRP System**.

FIELDS OF APPLICATION

- Priming the concrete surfaces under **FRP** (carbon, glass and aramide) sheets and laminates.

FEATURES AND BENEFITS

- Easy to apply
- Low viscosity.
- High strength
- Excellent bonding to concrete substrates
- Solvent free

APPLICATION PROCEDURE

Preparation of Substrate

The mineral based substrates (concrete, stone, brick, tile etc.) must be sound, clean and dry. It shouldn't be weakened by over-troweling and lack of curing. The concrete should be free of frost, curing membranes, waterproofing treatments, oil stains, laitance, friable material and dust. If there is a water leakage it must be drained or properly plugged. The surfaces must be dry (moisture content of the concrete should be < 4%). In case of low strength concrete ($\sigma_{tc} < 1.5 \text{ N/mm}^2$), the loosen parts of concrete must be broken and the surfaces should be refilled with structural repair mortars in **MasterEmaco® S** range. Before the primer application let the repair mortars cure at least 7 days at 20°C.

TECHNICAL DATA

Product Chemistry MasterBrace® P 3500 Part A MasterBrace® P 3500 Part B	Epoxy Resin Epoxy Hardener	
Color	Clear	
Mixed Density	1.08 ± 0.024 kg/liter	LX
Solid Content	100%	
Flexural Strength TS EN 196 (7 days)	> 20 N/mm ²	
Bonding Strength to concrete (7 days)	> σ_{tc} N/mm ²	
Application Temperature	+5°C - +30°C	
Pot Life	8 hours	
	2 hours	
	45 minutes	
	25 minutes	
Application Thickness	0.1-0.2 mm	
Recoat after	12-24 hours	
Fully Cured at 20°C	7 days	

Typical values are obtained from the test results of 4x4x16 mortar prism in 23°C and 50% relative humidity conditions. High temperatures shortens the curing and working time, lower temperatures extends the durations





We create chemistry

MasterBrace® P 3500 (Formerly known as Mbrace® Primer)

Epoxy Based Primer for MasterBrace® FRP System

Mixing

MasterBrace® P 3500 has two parts in pails, produced according to right mixing ratio. Material temperature should be between 15 - 25°C before mixing. Part B should be added into the Part A without any remaining material in the pail. It should be mixed with using a proper mixer (~300rpm) for polymer mixing. Mix the parts at least 3 minutes to have a homogenous mixture.

Mixing Ratio

MasterBrace® P 3500	Part A	Part B
Quantity	2.76 kg	1.24 kg
Mixed Density	1.08 kg/liter	

APPLICATION METHOD

MasterBrace® P 3500 should be applied to the concrete surfaces by using a soft roller. Application thickness should be between 0.1-0.2 mm.

COVERAGE

0.2 kg/m²

WATCH POINTS

- **MasterBrace® FRP** application should be done by approved experts.
- During the application the substrate and ambient temperature should be between 5 - 30°C.
- Resinous materials' pot life and curing times vary depending on the relative humidity, substrate and ambient temperature. Reaction

gets slow in low temperatures and it causes to extension on pot life and working time. On the other hand high temperatures speed up the reaction, which results to short pot life and working time. For full curing of material, both the substrate and ambient temperature shouldn't be under allowed application temperature.

- **MasterBrace® P 3500** is provided in ready to mix pails. Do not add any solvent etc. into the mixture during the application.
- The amount of mixed resin should be such that it may be applied within its useful workability time.
- Mixing should be made with proper mixers and do not allow mixing by hand.

CLEANING OF TOOLS

After the application all tools should be cleaned with a proper detergent or solvent such as thinner. **MasterBrace® P 3500** can be cleaned with only mechanical abrasion after hardening.

PACKAGING

4 kg set
Part A: 2.76 kg pail
Part B: 1.24 kg pail

STORAGE

Store in original container in cool (+5°C - +25°C) and dry indoor conditions.



We create chemistry

MasterBrace® P 3500 (Formerly known as Mbrace® Primer)

Epoxy Based Primer for MasterBrace® FRP System

SHELF LIFE

18 months under proper storage conditions after production date.

HEALTH AND SAFETY PRECAUTIONS

It is dangerous to approach the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **BASF Türk Kimya Sanayi ve Tic. Ltd. Şti.** is only responsible for the quality of the product. **BASF Türk Kimya Sanayi ve Tic. Ltd. Şti.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

Contact Information

BASF Türk Kimya San. ve Tic. Ltd. Şti.

Yapı Kimyasalları Bölümü

Tel: 0216 570 34 00

Fax: 0216 570 37 79

Mail: info@master-builders-solutions-turkey.com

www.master-builders-solutions.basf.com.tr

® = Registered trademark of the BASF-Group in many countries of the world

MasterBrace P 3500 Technical Data Sheet - Issue Date: 02/2016