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MasterBrace® BAR (Formerly known as Mbar®)

High Strength and High Modulus Carbon Fiber Bars

DESCRIPTION OF PRODUCT

MasterBrace® BAR is high strength and high modulus carbon fiber bars in MasterBrace® FRP System.

- Does not requires to empty the structure and strengthening works can be done with temporary stops
- Excellent corrosion resistance
- Good fatigue properties

FIELDS OF APPLICATION

MasterBrace® BAR is used in;

- Increasing the flexural strength of the concrete elements
- Increasing the flexural strength of the masonry walls
- Repair of the cracks as tie bars

WATCH POINTS

- MasterBrace® FRP applications should be done by approved experts.
- Work clothes, protective gloves, glasses and mask defined in labour laws must be used during the application. Do not touch to the bars without hand gloves.
- Consult to the BASF Technicians for special applications aren't defined in this data sheet.

BENEFITS

- Light and easy to carry
- East to cut
- Easy to design (Unidirectional laminates and similar elasticity modulus with steel)
- Does not increase the gravity of the structure

CLEANING OF TOOLS

After the application all tools should be cleaned with a proper detergent or solvent such as thinner.

TECHNICAL DATA

	MasterBrace® BAR 800 CFS	MasterBrace® BAR 1000 CFS	MasterBrace® BAR 1200 CFS
Elasticity Modulus (N/mm ²)	165.000	165.000	165.000
Tensile Strength (N/mm ²)	3.000	3.000	3.000
Elongation at Break (%)	1,5	1,5	1,5
Nominal Diameter (mm)	8	10	12
Nominal Area (mm ²)	50	78	113
Ultimate Tensile Load (kN)	125	195	282
Linear Weight (g/m)	80	126	183





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PACKAGING

Pre-cut
6, 12 m bars

STORAGE

Store in original container in cool (+5°C - +30°C) and dry indoor conditions.

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.

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