



The Chemical Company

MBRACE[®] PUTTY

Paste adhesive for the MBrace Composite Strengthening System

DESCRIPTION

MBrace Putty adhesive is a 100% solid, non-sag paste epoxy material for use with the MBrace Composite Strengthening System.

FIELDS OF APPLICATION

RECOMMENDED FOR

Sealing surfaces prior to epoxy injection, bonding of rigid materials, and levelling uneven surfaces prior to application of the MBrace System.

FEATURES AND BENEFITS

Adhesion promoting Improves adhesion of subsequent coatings to substrates

TYPICAL PERFORMANCE DATA

Flexural strength, MPa (ASTM D790:01)	: 18
Flexural modulus, MPa (ASTM D790:01)	: 930
Compressive strength, MPa (ASTM D695:96)	: 17.8
Compressive modulus, MPa (ASTM D695:96)	: 1,045
Tensile strength, MPa (ASTM D638:00)	: 12.2
Tensile strain at yield, % (ASTM D638:00)	: 1.81
Tensile modulus, MPa (ASTM D638:00)	: 1,570

PROPERTIES

Generic Type : 100% solids amine-cured liquid epoxy.

Colour :	Part A	Tan
	Part B	Charcoal
	Mixed	Tan

VOC Content : 1.79%
(SS5: Part B2)

Flash point (Pensky-Martens closed cup)

Primer Part A : 99°C
Primer Part B : >93°C

Mixing ratio :	Part A: Part B	
	By volume	3:1
	By weight	100:30

Weight/Volume :	Part A	1.352 g/L
	Part B	1.158 g/L
	Mixed	1.259 g/L

Mixed viscosity :	Temperature	Viscosity
	10°C	74,000 cps
	20°C	45,000 cps
	30°C	33,000 cps

Working Time, based on 3.8L sample :	Temperature	Pot-Life
	10°C	95 min
	20°C	40 min
	30°C	15 min

BASF Construction Chemicals offices in ASEAN

Singapore

Tel : +65-6861-6766
Fax : +65-6861-3186

Malaysia

Tel : +60-3-5628-3888
Fax : +60-3-5628-3776

Indonesia

Tel : +62-21-526-2481
Fax : +62-21-526-2541

Thailand

Tel : +66-2204-9427
Fax : +66-2664-9267

Vietnam

Tel : +84-650-3743-100
Fax : +84-650-3743-200

Philippines

Tel : +63-2-889-4321
Fax : +63-2-889-4361

MBRACE[®] PUTTY

APPLICATION

Surface Preparation

Proper substrate preparation is critical for optimum performance. The prepared surface should be structurally sound and free from contaminants such as oil, grease, curing membrane, previous coatings, dust, fungus, mass, etc.

Depending on the substrate condition and environmental requirements, use an effective method recommended by ICRI Guideline No. 03732 for selecting and specifying concrete surface preparation for sealers, coatings and polymer overlays.

Note : Primed surfaces should be top-coated within two days to ensure proper adhesion of the MBrace System to the substrate.

Mixing

3 volumes of **MBrace Putty** Part A to 1 volume of **MBrace Putty** Part B. Blend with a mechanical mixer for at least 3 minutes or until it is homogeneous. Mixing time may be adjusted according to the temperature during application.

Note : Catalyse no more than can be applied within the work time period. Available work time, temperature and complexity of the application area will determine how much material should be catalysed at one time. Keep material cool and shaded from direct sunlight in warm weather. Work time can be extended by keeping material cool before and after mixing and by immersing pot in ice water during hot weather.

Placing

Apply the **MBrace Putty** to the primed substrate using a spring-steel trowel or other suitable tool. The application thickness and subsequent coverage rates will be highly dependent on the condition and profile of the concrete substrate.

ESTIMATING DATA

Estimated coverage rates are as follows for a 3mm thick application:

Smooth surface : 0.29 m²/L

Rough surface : 0.15 m²/L

PACKAGING

	1 kg set	5 kg set
Part A	0.7752 kg	3.876 kg
Part B	0.2248 kg	1.124 kg

SHELF LIFE

MBrace Putty can be kept for 12 months from date of manufacture if stored in original unopened packaging, in a dry enclosed place at temperatures at 25°C without exposing to direct sunlight.

PRECAUTIONS

MBrace Putty contains reactive resins and diluents. Observe the following health and physical precautionary measures before using this product.

Wear gloves, mask, eye protection, barrier creams and appropriate work clothing while handling the product. Wash thoroughly after handling. Should skin contact occur wash immediately with soap and water, or an effective hand cleaner. In case of accidental eye contact wash with copious quantity of water and seek medical help immediately. If ingested, do not induce vomiting. Consult doctor immediately. Ventilation is required with special consideration for enclosed or confined areas.

Air movement must be designed to ensure turnover at all locations in work and adjacent areas to avoid build up of heavy vapours.

For detailed Health, Safety and Environmental Recommendations, please refer and follow all instructions on the product Material Safety Data Sheet.

AN/MBracePutty/v2/060409

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF Construction Chemicals** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.