



MC-DUR Putty-MI

Two-Component Solvent Free, Moisture Insensitive epoxy Putty

Product Properties

- Two components Solvent Free property
- Provides good bond strength on Dry, moist and Underwater condition
- Suitable for any Marine environment
- Provide good resistance against impact loading condition
- It Bears good Mechanical Properties
- Acts like a good waterproofing Barrier
- Confirms to FIP 5.1, ASTM C579 & 882, EN 1542 requirements.

Areas of Application

- Recommended for Sealing of cracks for Concrete and Metal in all Dry, Moist and Underwater Condition
- Recommended as a Protective layer for concrete structure
- Recommended for the Pointing work and Surface Preparation work exposed to Marine condition

Application Notes

General

MC-DUR Putty-MI is a Two component, Solvent free, Epoxy resin-based material in Putty Consistency with Special Moisture Insensitive Property.

MC-DUR Putty-MI has good adhesion to concrete, steel and masonry. The cured Matrix has good resistant to water, corrosion, chemical attack. It Provides good abrasion resistance and it is suitable for application to reservoirs, tanks, silos, Portable water works, breweries, dairies, meat and food processing Units.

Instruction for use

Surface Preparation Concrete

All surfaces must be smooth, sound and free from any unsound material and any contaminations such as oil, grease, dust, loose particles and organic growth. Concrete surfaces must be fully cured, laitance free and free from any traces of shuttering, release oils and curing compounds. For old structures, existing paints should be removed thoroughly and all the honeycombs cleaned thoroughly to remove any foreign materials by using pressurised water jet.

Surface Preparation Steel

The Steel Surface must be prepared to SA 2½ in accordance with DIN 55928, part 4. They must be free from rust and any other contaminants or corrosion developing products. Therefore, the Steel surface should be treated by shot blasting with quartz-free abrasives, sand-blasting or other suitable techniques.

Mixing

MC-DUR Putty-MI Consists of two components, supplied in prepacked quantities. First, the base component is mixed thoroughly and then the hardener is added. Both components are mixed together thoroughly and homogeneously for at least 3-5 minutes. Slowly rotating mixers with paddle (max.600 rpm) are suitable for mixing. Care should be taken to keep entrainment of air to a minimum while mixing.

Application

MC-DUR Putty-MI Should be applied by using Glove-Protected hand, Spatula or trowel. The mixed Material should be placed Properly and evenly on the prepared substrate and later on it can be finished by slight rubbing with wet gloves.

Conditions of Application

During application of **MC-DUR Putty-MI**, if the temperature of the structure and ambient temperature drops below +5°C the application of Coating should stop immediately.

Safety & Precaution

For all work with Epoxy resins the appropriate protective clothing (safety glasses and gloves) should be worn. The unmixed hardener is highly alkaline and a skin irritant. It must not come into contact with the skin, especially the mucous membranes.

If resin gets into the eyes it should be removed immediately using an eyewash. Suitable eyewash should be kept on the building site at all times. Medical advice should be sought immediately.

Cleaning

All injection machines can be cleaned with **MC-Clean EP** on completion of work or any extended break.



Technical Data For MC-DUR Putty-MI

Characteristic	Unit	Value*	Comments
Mixed Density	Kg/l	1.55	At 27 ^o C Temp.
Mixing Ratio	p.b.w	1:1	Resin : Hardener
Pot Life	min	50	100 g at 30 ^o C as per FIP 5.1
Compressive strength	N/mm ²	>20 >25	1 day strength as per ASTM C579 3 day strength as per ASTM C579
Bond strength	N/mm ²	>2,5	3 day strength as per EN-1542
Slant Shear	N/mm ²	>10	3 day strength as per ASTM C882
Tensile strength		Concrete Failure	As per FIP 5.14
Application Condition	^o C	+5 to +40	Substrate Temp
	^o C	+5 to +40	Ambient Temperature
	^o C	+10 to +40	Material Temperature

*All the technical Values were determined in laboratory, at a temperature of 30^o C and 65% relative humidity

Product Characteristics for MC DUR Putty-MI

Colour	Gray
Cleaning agent	MC-Thinner EP Water or water-based cleaners must not be used under any circumstances
Delivery	8 kg
Self Life	12 Month
Storage	Can be stored in original sealed packages at temperature between +5 ^o C and +30 ^o C in dry conditions for at least one year. The same requirements are valid for Transport
Disposal	Packs must be emptied completely.

Safety Advice

Please Take notice of the safety information and advice given on the packaging labels, safety information sheets and General Application Advice.

Note: - The information on this Data Sheet is based on our experiences and correct to the best of our knowledge. It is However, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our Data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are binding if given in written form. The accepted engineering rules must be observed at all times.

Edition: - MC/IND/R0/JAN2021, Some Technical Changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.