



MC-DUR EPW

Two-Component Solvent Free, Food Grade Epoxy Coating For Structures containing Potable Water

Product Properties

- Two components Solvent Free, Food Grade epoxy resin Based Coating
- Good Chemical and high abrasion resistance.
- Solvent free and nontoxic, hence applied in closed area.
- Provides a smooth and easy to clean surface.
- Good adhesion to concrete and steel
- Food Grade Certified by CFTRI

Areas of Application

- Structural lining and waterproof coating for Water tank containing potable water
- Protective coating for the tank containing Food and Food processing Materials.
- Suitable for Protective coating on Concrete, mild steel surfaces.

Application Notes

General

MC-DUR EPW is a Two component, Solvent free, Food grade, Epoxy Resin Based Duromer Coating. The cured film is nontoxic and food grade hence it is suitable for the storage tank containing potable water.

Advantages

MC-DUR EPW has good adhesion to concrete, steel and masonry. The cured film 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 honey combs, pinholes, bug holes should be filled with Nafuquick range Mortars.

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. The use of rust removers is not recommended to Clean the steel surface.

Mixing

MC-DUR EPW 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 minutes. Slowly rotating mixers with paddle (max.300 rpm) are suitable for mixing. Care should be taken to keep entrainment of air to a minimum while mixing.

Application

MC-DUR EPW can be applied by Nylon bristle brush or Roller Depending upon substrate. Application of Coating should be commenced on the **MC-DUR EPW Primer** Surface. if the surface temperature is more than 35°C then application of **MC-DUR EPW** should immediately stopped.

Minimum Two coats of **MC-DUR EPW** are recommended for achieving better waterproofing properties. During the application of 1st coat the coating should be done in "X" Direction, ensuring continuation of coating throughout the surface need to be waterproofed. 2nd coat should be applied after the 1st coat will be completely dry on the "Y" Direction, Ensuring Continuation of Coating throughout the surface. The Minimum WFT should be maintained 100µ per coat

Conditions of Application

During application of **MC-DUR EPW** if the temperature of the structure and ambient temperature drops below +10°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 EPW

Characteristic	Unit	Value*	Comments
Solid Content	%	100	as Per ASTM D2697
Pot life	Minutes	20 - 30	@ 27°C as per ASTM D2471
Minimum application temperature	°C	+10°C	
Mixing ratio	P.b.w	85:15	Resin: Hardener
Tensile strength	MPa	20 - 25	As per ASTM D 638
Elongation	%	2 – 2.5	As per ASTM D 638
Abrasion Resistance	Mg Loss	80 - 100	As per ASTM D 4060
WFT	μ	100	As per ASTM D 4414 single coat
DFT	μ	100	As per ASTM D 1186 single coat
Touch Dry	Hrs	2	As per ASTM D 1640
Tack Free Dry	Hrs	8	As per ASTM D 1640
Full Dry	Hrs	24	As per ASTM D 1640
Coverage	Grm/m ²	200 to 250	@ 100μ DF Thickness per Coat

*All the technical Values were determined in laboratory, at a temperature of 20⁰ C and 65% relative humidity

Product Characteristics for MC DUR EPW

Colour	Available in desired Shades.
Cleaning agent	MC-Thinner EP Water or water-based cleaners must not be used under any circumstances
Delivery	5 kg and 20 Packs
Storage	Can be stored in original sealed packages at temperature between +5°C and +25°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/R1/AUG20, 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.