



MC-DUR 1491

Epoxy based flexible Polysulfide Coating for Concrete and Steel

Product Properties

- Epoxy Resin based Polysulfide Coating
- Protects the concrete Carbonation and external moisture
- Suitable for concrete and steel exposed to saline environment
- Non-Toxic and Flexible
- Good UV resistance Properties
- Good Abrasion resistance
- Good Chemical Resistance
- Easily applied by the Brush or roller or Airless Spray machine.

Areas of Application

- As a Protective coating for Concrete/Steel Exposed to Marine environment
- As a Protective lining for Concrete/Steel exposed to Waste Water or sewage water
- As a Protective Coating For Bridges, Laboratory, Food Processing Units, Hospitals, Hangars, garage etc

Application Notes

General

MC Dur 1491 is a flexible high build epoxy polysulfide resin-based coating specifically developed to protect concrete and steel from aggressive chemicals, oils, mild acids, solvents. Its Appearance will be semi glossy, Hygienic and easily cleaned surface Standard colours is available in grey.

Advantages

MC-DUR 1491 has good adhesion to concrete, steel and masonry. The cured film has good resistant to water, corrosion, chemical attack. It Provides good abrasion resistance for the mineral based substrate. In addition, it is resistant to diesel oil, dilute acids and alkalis, as well as numerous organic solvents.

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. The minimum concrete compressive strength necessary should be >25 N/mm². A substrate pull off strength of 1.5 N/mm² is required.

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 1491 is supplied in prepacked quantities. First, the base component is mixed with color paste 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 1491 can be applied by Nylon bristle brush/Roller/airless spray Depending upon substrate. For old dusty /rusty unsound, difficult substrates application of coating should be commenced on the suitable penetrative primer from **MC-DUR Range Primers**. if the surface temperature is more than 35°C then application of **MC-DUR 1491** should immediately stopped

Minimum Two coats of **MC-DUR 1491** are recommended for achieving desired thickness. During the application of 1st coat the coating should be done in "X" Direction, ensuring continuation of coating throughout the surface need to be covered. 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 250µ per coat

Conditions of Application

During application of **MC-DUR 1491** if the temperature of the structure and ambient temperature drops below +15°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 tools and the equipment's can be cleaned with **MC-Clean EP** on completion of work or any extended break.



Technical Data For MC-DUR 1491

Characteristic	Unit	Value*	Comments
Pot life	Minutes	50 - 60	@ 27°C
Volume of Solid	%	98 ±2	
Application Condition	°C	≥15 - ≤ 30	Air, material and substrate temperature
	%	≤ 85	Relative humidity
	K	3	Above dew point
WFT	μ	250	Per coat (minimum 2 coats recommended)
UV Resistance		Good	As per ASTM-G-53-58 at 500hrs Exposer
Shore D hardness		≥50	At 7 Day as per ASTM D2240
Water Permeability		Nil	As per DIN 1048
Rapid Chloride permeability		Nil	As per ASTM C1202
Tack Free time	Hrs	7	@27 ⁰ C
Initial hardness	Hrs	24	@ 27 ⁰ C
Full Cure	days	7	@ 27 ⁰ C
Coverage	Gm/m ²	700 (0.50 L)	Per 2 coats

Product Characteristics for MC DUR 1491

Colour	Grey
Cleaning agent	MC-Thinner EP Water or water-based cleaners must not be used under any circumstances
Delivery	7 kg (5L) and 21 kg (15L) 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/R0/DEC2020, 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.