



MC-DUR 115 - IN

Multipurpose Epoxy based Floor Coating

Product Properties

- Multipurpose epoxy resin Based Coating
- Good Chemical and high abrasion resistance.
- Resistant to diesel oil, dilute acids and alkalis, as well as numerous organic solvents.
- Provides a smooth and easy to clean surface.
- Good adhesion to concrete and steel
- Provides a good Seam less Surface

Areas of Application

- Mechanical and chemically resistant coating for mineral based substrates
- Oil & petrol resistant in car parks, garages, petrol stations and car washes
- Water and Chemical resistant coating in chemical, pharmaceutical, food Processing and bottling plants, dairies etc

Application Notes

General

MC-DUR 115 - IN is a Solvent based, Epoxy Resin Duromer Coating. The cured film is nontoxic and provides good chemical resistance, hence it is suitable for coating on the mineral based surface to provide it a dust free surface.

Advantages

MC-DUR 115 - IN 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 Reinforcing steel 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 reinforcement should be treated by shot blasting with quartz-free abrasives, sand-blasting or other suitable Rust removing techniques as per the requirement and the condition of the site

Mixing

MC-DUR 115 - IN supplied in prepacked quantities. First, the base component is mixed thoroughly and then the second component Pigment is added to the base. Both components are mixed together thoroughly and homogeneously for at least 2 minutes. Then the third Component Hardener will be added and again mixed for 3 min to get a homogeneous mix. 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 115 - IN can be applied by Nylon bristle brush or Roller Depending upon substrate. On the concrete structure application of Coating should be commenced on the **MC-DUR EP Primer** Surface. The coverage of the primer should be considered 150 gm per sqmtr per coat. if the surface temperature is more than 35°C then application of **MC-DUR 115 - IN** should immediately stopped.

On the Steel structure **MC Dur ZKE** should be used as an Primer @130gram per M² per coat before application of **MC Dur 115 IN**

Minimum Two coats of **MC-DUR 115 - IN** 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 100µ per coat

Conditions of Application

During application of **MC-DUR 115 - IN** 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 the application tools can be cleaned with **MC-Clean EP** on completion of work or any extended break.

**Technical Data For MC-DUR 115 - IN**

Characteristic	Unit	Value*	Comments
Mixed Density		1.18 ± 0,05	
Pot life	Minutes	60 - 90	@ 25°C
Solid Content	%	70±2	
Mixing Ratio	p.b.w	2 1 1	Resin Color Paste Hardener
Application Condition	°C % K	≥10 - ≤ 30 ≤ 85 3	Air, material and substrate temperature Relative humidity Above dew point
DFT	μ	75	Per coat
Shore D hardness		>20	At 7 Day
Tack Free time	Hrs	7	@20° C
Initial hardness	Hrs	24	@ 20° C
Full Cure	days	7	@ 20° C
Coverage	Grm/m ²	130	Per 1 coat (min 2 coats Recommended)

Product Characteristics for MC DUR 115 - IN

Colour	Available in desired Shades.
Cleaning agent	MC-Thinner EP Water or water-based cleaners must not be used under any circumstances
Delivery	6 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/MAR2020, 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.