



MC-DUR 140 IN

High Build Multipurpose Epoxy based Floor Coating

Product Properties

- Multipurpose high build epoxy resin Based Coating
- Good Chemical, corrosion 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 140 IN is an Epoxy Resin based 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 140 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 markings, 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

Mixing

MC-DUR 140 IN supplied in prepacked quantities. First, the pigmented base component is mixed thoroughly for at least 2 minutes. Then the 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 140 IN can be applied by Nylon bristle brush or Roller Depending upon substrate. Generally, Primer is not Required on Sound, non-porous concrete substrate. if the surface is porous, Then the **MC-DUR Range Primer** should be recommended, The coverage of the primer should be considered 125 - 150 gm per sqmtr per coat. if the surface temperature is more than 35°C then application of **MC-DUR 140 IN** should immediately stopped

Minimum Two coats of **MC-DUR 140 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 200µ per coat

System -1-Smooth Finished Floor Coating (400 microns)

- Primer: Required for porous surface MC DUR EP @125 ml/m²/coat
- Epoxy Coating (Base Coat) @200 ml/m²/coat (at 200µ WFT)
- Epoxy Coating (Top Coat) @200 ml/m²/coat (at 200µ WFT)

System -2-Antislip Car Parking Coating (0.75- 1.5 mm / 1.50-2mm)

- MC DUR EP @125 gms/m²/coat (1-2 coats)
- Epoxy Coating (Base Coat) @250 ml/m²/coat
- Anti-slip Grain (0.4 -0.7mm/ 0.6 -1.2 mm) @1.5 – 2.0 kg /m²/coat for system thickness (0.75- 1.5 mm / 1.50- 2mm)
- Epoxy Coating (Top Coat) @250-350 ml/m²/coat

Conditions of Application

During application of **MC-DUR 140 IN**, if the temperature of the structure and ambient temperature drops below +10°C the application of Coating should stop immediately. If this coating is exposed to UV then above all **MC Dur 215 UVR** can be recommended as a protective top coating.

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 140 IN**

Characteristic	Unit	Value*	Comments
Mixed Density	Gm/cc	1.5	±0.05
Pot life	Minutes	40	@ 25°C
Mixing Ratio	p.b.w	5 1	Part-A (Resin pigmented) Part-B (Hardener)
Application Condition	°C % K	≥10 - ≤ 30 ≤ 85 3	Air, material and substrate temperature Relative humidity Above dew point
WFT	μ	200	Per coat
Compressive Strength	N/mm ²	55	At 7 Day
Shore D hardness		75	At 7 Day
Tack Free time	Hrs	7	@ 25 ^o C
Initial hardness	Hrs	24	@ 25 ^o C
Full Cure	days	7	@ 25 ^o C
Coverage	Grm/m ²	200 per Coat	Recommended 2 coats

Product Characteristics for MC DUR 140 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(A+B) and 20 kg (A+B)
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/SEPT2020**, 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.