MC-DUR 1120SL-IN

(Formerly Known as MC Dur ESL 2000)

Three-Component Epoxy Resin Based SL Flooring

Product Properties

- Three components Pigmented epoxy resin Based SL Flooring for 2 mm thickness Application
- 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 Flooring for mineral based substrates
- Oil & petrol resistant in car parks, garages, petrol stations and car washes
- Water and Chemical resistant flooring in chemical, pharmaceutical, food Processing and bottling plants, diaries etc

Application Notes

General

MC-DUR SL 1120-IN is a Three component, Epoxy Resin Based, Self-Leveling 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 SL 1120-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. Along with it provides you a seamless finish

Instruction for use

Surface Preparation

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/mm^2. A substrate pull off strength of 1.5 N/mm^2 is required. The mineral based substrate should be minimum 28 days old and should have maximum moisture content maximum 5%.

Mixing

MC-DUR SL 1120-IN Consists of three components, supplied in prepacked quantities. First, the base and Pigment component is mixed thoroughly and then the second component Hardener is added to the base. Both components are mixed together thoroughly and homogeneously for at least 2 minutes. Then the third Component Filler 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.

Priming

After the substrate preparation, the surface should be primed by using **MC-Dur Range** Primer to ensure a strong and good bonding between substrate and coating. If in some of the cases priming is not sufficient to fill all the pores and blow holes in the substrate, in that case scratch coat is necessary to overcome this situation. For scratch coat the primer is filled up with oven dried quartz sand (0.1-0.3mm) with a mixing ratio 1:1 p.b.w. The scratch coat is applied with steel floats, rubber squeegees or hard rubber floats.

Application

The applied mixed Material to be poured onto the primed or scratch coat substrate and spread with a steel float, Pinfloat or rubber squeegee. Coverage should be maintained as mentioned in Technical Details. Then after spreading all the fresh areas to be de-aerated cross- wise with a spiked roller. To achieve an anti-skid surface, the quartz-sand filled coating is strewn in excess with oven-dried quartz-sand (e.g 0.2-0.7mm or large) while still fresh. After curing the excess sand is removed and a top-sealer may be applied. The top sealer is applied sharply across the grains using a rubber squeegee and rolled crosswise with a short-piled lambskin roller. Depending on the system a Second coat might be necessary.

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.

When working with reactive resins the rooms must be well ventilated during application and curing.

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 SL 1120-IN

Characteristic	Unit	Value*	Comments
Pot life	Minutes	60 - 90	@ 30°C
Mixed Density	Gm/cc	1.67±0.05	
Compressive strength	N/mm^2	>50	At 7 days
Application Condition	°C % K	≥10 - ≤ 30 ≤ 85 3	Air, material and substrate temperature Relative humidity Above dew point
DFT	µ	2000	Per coat
Tack Free time	Hrs	7	@30^0 C
Initial hardness	Hrs	24	@ 30^0 C
Shore D hardness		60 74	At 1 Day At 7 Day
Full Cure	days	7	@ 20^0 C
Mixing Ratio	p.b.w	2.1 0.3 1.2 7.2	Resin Color Paste Hardener Filler
Coverage	kg/m^2	3.4	Per coat

Product Characteristics for MC DUR SL 1120-IN

Colour	Available in desired Shades.
Cleaning agent	MC-Thinner EP Water or water-based cleaners must not be used under any circumstances
Delivery	25.5 Kg (A:A1:B:C:4.96:0.71:2.83:17.00)
Self Life	12 months from the date of Manufacturing.
Storage	Can be stored in original sealed packages at temperature between +5^0C and +25^0C 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.

Edition: - MC/IND/R3/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.