



MC-DUR SL 1120

Solvent free self-leveling epoxy floor topping

Product Properties

- Three –component solvent free, pigmented epoxy resin self-leveling topping.
- Smooth high gloss finish for hygienic & architectural requirements.
- Designed for application thicknesses from 2 - 3 mm.
- High chemical resistance*.
- High mechanical & abrasion resistance.
- Slip resistance finishes.

Areas of Application

- **MC-DUR SL 1120** is used to provide a hygienic, dense and hard wearing surface for concrete floors for a wide range of application such as showrooms, Laboratories, Heavy or light duty industrial plants... etc.

Application

Substrate Preparation

Substrate must be dry, (moisture content less than 4%) free of dirt, dust, oil and grease and any other materials that may impair adhesion. All laitance should be removed to provide adequate bonding. This is best achieved by grit/ captive blasting or rotating head grinder machine followed by vacuum cleaning to remove dust debris.

Priming

Substrate should be primed using **MC-DUR 1150 VK AE**, a two component epoxy resin primer. The two components must be thoroughly mixed, in the proportions supplied, until homogenous and streak-free. The mixed Primer is applied using a rubber squeegee and/or roller at a rate of approximately 200 - 300 g/m². Ponding of the primer should be avoided. If it cannot be over coated within 24 hours the fresh primer is to be strewn with oven-dried quartz-sand (0.1 - 0.3 mm) at a rate of 1 – 2 g/m².

Scratch Coat

All surface irregularities are recommended to be repaired with repair mortar or a scratch coat consists of **MC-DUR 1200 VK AE** mixed with oven-dried quartz-sand (0.1 - 0.3 mm) mixed in a ratio of 1: 1 p.b.w. and is applied onto the primed surface with steel floats, rubber squeegees and/or screeding tools. Scratch coats should be “tight troweled” into the surface to close pores, voids and minor defects. Please consult Local MC-Bauchemie office for Advice.

Mixing

MC-DUR SL 1120 is supplied in three pre weight packs, Using a jiffy-type mixer attached to a slow-running electric drill; mix the Base and the Hardener for approximately two minutes. Once the MC-DUR SL Hardener and Resin have been mixed uniformly, the graded filler should be added slowly to mix continue mixing for another 3-4 minutes taking care to ensure that these are completely uniform and lump-free.

Application

Once mixing is complete, Immediately lay **MC-DUR SL 1120** to the prime surface at the required thickness using a trowel, spreading the material evenly and slowly.

Care should be taken when joining the lanes, to achieve a smooth connection. It is recommended to mask off edges with tape which is then removed while **MC-DUR SL 1120** is still wet.

Finishing

Immediately after laying and while still wet, thoroughly spike roll the **MC-DUR SL 1120** using a spiked nylon roller, to remove slight trowel marks, and to assist air release.

General Information

Coverage, application time, resistance to traffic and time until full resistance is achieved are determined by temperature and site conditions.

Minor color variations may occur from batch to batch. Exposure to chemicals and UV-light may cause color changes which generally do not affect the properties and performance of MC coatings. Surfaces subject to mechanical and chemical exposure will show signs of wear and tear. Regular inspections and continuous maintenance are advised.



Technical Data for MC-DUR SL 1120

| Characteristic | Unit | Value | | Comments |
|----------------------|-------------------|----------|---------|----------------|
| Compressive Strength | N/mm ² | >50 | @7 Days | ASTM C579 |
| Flexural Strength | N/mm ² | 35 | @7 Days | ASTM C580 |
| Tensile Strength | N/mm ² | 17 | @7 Days | ASTM C307 |
| Relative Density | Kg/L | 1.65 | | |
| Pot Life | min | 40 | | @ 25C° |
| Foot traffic | hr | After 24 | | @ 25C° |
| Vehicular traffic | hr | After 48 | | @ 25C° |
| Bond Strength | N/mm ² | >2.0 | | ASTM D4541 |
| Shore D Hardness | | D/75/1 | | ASTM D2240 |
| Abrasion resistance | Loss of mass | 28g | | ASTM D 4060-01 |

Product Characteristics for MC-DUR SL 1120

| | |
|----------------------------|--|
| Color | MC-Grey; Silver Grey, special colors on request. |
| Delivery | 23.37Kg packs |
| Cleaning agent | MC-Reinigungsmittel U |
| Storage | The material should be stored in a dry and covered area away from direct sunlight in its tightly closed containers. In these conditions, the material shelf life is 12 months. |
| Standards & Specifications | |

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and Material Safety Data Sheets. Refer to chapter "Safety Measures for Handling Coating Materials and Reactive Resins".
GISCODE: RE1

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 refer 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 condition of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in the written form. The accepted engineering rules must be observed at all times.

Edition 11/21. 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.