

MC-DUR 111 D

2-K water-based epoxy resin for curing, impregnation and protection of concrete.

PRODUCT PROPERTIES:

- Adheres to dry as well as slightly damp mineral-based surfaces (no visible moisture).
- Resistant to water exposure, diluted acids and alkaline solutions, as well as numerous organic chemicals (see Table of Chemical Resistance).
- Available as transparent impregnation or pigmented sealer and combined anti-skid finish.
- Good abrasion resistance.
- Control the moisture during the concrete curing process and protects hardened concrete from ingress.
- Ability to cover micro static cracks.

AREAS OF APPLICATION:

- Colored or transparent protective coating of pre-cast elements.
- Curing and impregnation of green concrete.
- Optically pleasing sealer for mineral-based substrates subject to increased mechanical and chemical stress.
- Oil- and benzene-resistant sealer for car-parks, garages, department stores, car-wash plants and other inner areas.
- For use in industrial areas or similar.
- REACH-Assessed exposure scenarios: long-term inhalation, application.

APPLICATION NOTES:

- **Substrate Preparation / Mixing:** See leaflets "General Application Advice": "Industrial Flooring - Substrate and Substrate Preparation" and "Reactive Resins".
- **Application:** MC-DUR 111 D may be applied by brush, roller or airless spraying technique, water must not be added. Mineral-based substrates are primed with MC-DUR 111 D transparent and afterwards sealed with two layers of MC-DUR 111 D pigmented. The layers should be applied swiftly and without seams. The end of the application time cannot be determined by a higher viscosity of the material. Therefore MC-DUR 111 D may not be used after its specified pot life. To ensure optimal drying a minimum surface- and air-temperature of 10°C and a relative humidity of 85% is permitted. The intervals between the individual work-steps should not exceed 48 hours (at a temperature of 25°C).
- **Application as anti-skid coating:** MC-DUR 111 D is added approx. 3 weight-% MC Anti-Slip 50. It is applied with rubber squeegees and roll crosswise with short-piled lambskin rollers.
- **General Information:** Coverage, application times, resistance to foot traffic and time until full resistance are determined by temperature and site properties and condition. See also leaflet "General Application Advice - Reactive Resins". Concerning the batch colour consistency, please note the general information on the leaflet "General Application Advice - Reactive Resins". Exposure to chemicals and UV-light may cause colour changes, which usually do not affect the properties and usability of the coating. Mechanically and chemically exposed surfaces are subject to wear and tear. Regular check-ups and continuous maintenance are advised.

MC-BIFI BAUCHEMIE JSC.

Ha Noi: 814/3 Lang Str., Lang Thuong Wd., Dong Da Dist., Hanoi City

Da Nang: 91 Le Van Duyet Str., Nai Hien Dong Wd., Son Tra Dist., Da Nang City

HCMC: No. Y13, Str. 29, Phuoc Kien A RLA, Phuoc Kien Commune, Nha Be Dist., HCMC

Email: info@mcbifi-bauchemie.vn | Website: www.mcbifi-bauchemie.com

- Tel: (+84) 24 3775 5312 - Fax: (+84) 24 3775 9607

- Tel: (+84) 23 6355 6869 - Fax: (+84) 23 6355 6969

- Tel: (+84) 28 3620 8665 - Fax: (+84) 28 3620 8685

TECHNICAL DATA:

| Characteristic | Unit | Value* | Value* | Comments |
|---------------------------------|-------------------|--------------------------|------------------------|---|
| | | MC-DUR 111 D transparent | MC-DUR 111 D pigmented | |
| Mixing ratio | p.b.w. | 3 : 1 | 4 : 1 | Base : Hardener |
| Density | g/cm ³ | ~ 1.070 | ~ 1.300 | |
| Viscosity | mPa·s | ~ 400 | ~ 2,000 | |
| Pot life | Minutes | ~ 120 | ~ 120 | |
| Resistant to foot traffic after | Hours | > 12 | > 12 | |
| Time until full resistance | Days | 7 | 7 | |
| Application condition | °C | ≥ 10 - ≤ 40 | ≥ 10 - ≤ 40 | Air, material and substrate temperature |
| | % | ≤ 85 | ≤ 85 | Relative humidity |
| | K | 3 | 3 | Above dew point |
| Coverage | g/m ² | 100 - 150 | 150 - 300 | Per work step |
| Layer thickness | µm | ~ 100 | ~ 135 | At 250 g/m ² |

* Technical data are tested at lab conditions at 20°C and 50% RH.

PRODUCT CHARACTERISTICS:

| Product characteristics | MC-DUR 111 D transparent | MC-DUR 111 D pigmented |
|--|---|--|
| Cleaning agent | Water | Water |
| Color | Transparent | MC-grey; Mid grey, Dark grey; Approx ~ RAL color ranges; Further color on request. |
| Packaging | 5 kg/set or 25 kg/set | 5 kg/set or 25 kg/set |
| Storage | Can be stored in cool (> 5°C – and < 20°C) and dry conditions for 12 months in original unopened packs. Protect from frost. | |
| Disposal | Pack must be emptied completely, and in accordance with local regulations. | |
| EU-Regulation 2004/42 (Decopaint standard) | RL2004/42/EG All/j (140g/l) < 140g/l VOC | |

Safety Advice: Please take notice of the safety information and advice given on the packaging labels and safety information sheet.

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 only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition **01/2024**. 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.