



MC-DUR 1264

Two-component Low Viscos Epoxy Injection Resin for Structural Repair of Cracks

Product Properties

- Low viscosity two component epoxy resin Based Duromer Injection
- Unfilled, unpigmented
- Solvent free, hence applied in closed area
- Good capillary absorption
- Good adhesion to concrete and steel
- Durable and suitable for Injection in Dry cracks

Areas of Application

- Structural crack filling of concrete, brick work and similar building materials in Dry areas
- Suitable for crack width > 0.2mm.
- Suitable for Injection in dry concrete for Structural strengthening

Application Notes

General

MC-DUR 1264 is a two-component epoxy injection resin for structural repairs of cracks. Application can be carried out through various application methods ranging from simple brush treatment to sophisticated one or two component pressure injection machines

Advantages

MC-DUR 1264 has good adhesion to concrete, steel and masonry. It is suitable for crack width greater than 0.2 mm and is ideal for structural crack filling for concrete, brickwork and similar building material. MC-DUR 1264 highly durable epoxy.

Instruction for use

A variety of application methods can be used, ranging from simple brush treatment to sophisticated one-component pressure injection machines. Pressure injection can be carried through adhesion packers (up to 60 bars) and bore packers (up to 500 bars), when using adhesion packers; the surface should be dry and sound. Laitance, loose materials and contamination must be removed with suitable tools. Any dust should be blown away with dry compressed air.

If the structure is subjected to dynamic loading the adhesion packers should be fixed and the crack face sealed. When using bore packers, drill dust must be removed from the bore surface with compressed air as above or by using an industrial vacuum cleaner or other suitable techniques. Filling of cracks without pressure is ensured by capillary action wider cracks can be filled by under pressure injection achieved with the single component injection machine

Mixing

MC-DUR 1264 is supplied as base and hardener. For impregnation or injection with the single-component machine like MC-I 500, the base and hardener should be mixed with a slow stirring paddle. After mixing the material should be filled into a clean container and briefly mixed again.

The application time of MC-DUR 1264 depends on the amount mixed and the ambient temperature. When using the two-Component injection machine, the base and hardener should be poured into their respective supply reservoirs.

They will get mixed in the mixing chamber of the injection gun. In the event of an extended interruption, the mixing head should be cleaned using appropriate cleaning agent.

Conditions of Application

When filling the cracks, the temperature of the structure should not drop below +10°C

Safety & Precaution

For all work with injection 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

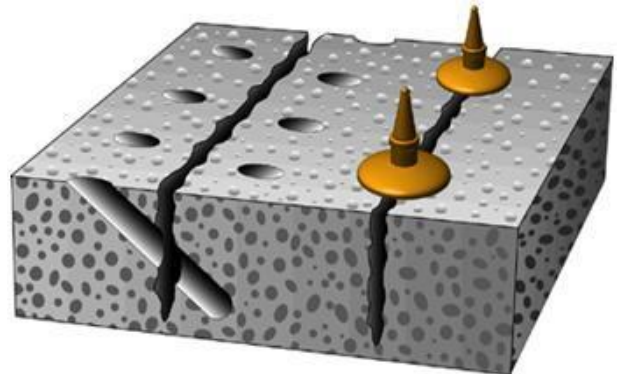
All injection machines can be cleaned with **MC-Clean EP** on completion of work or any extended break.

Further Instructions / Precautions

Application Machinery



Application Methodology



Technical Data For MC-DUR 1264

| Characteristic | Unit | Value* | Comments |
|---------------------------------|---------------------|--------|--------------------------------------|
| Density at 30°C | kg/lit | 1.13 | ±0.03 |
| Pot life of 100g mass | Minutes | ≥30 | at 30°C |
| Minimum application temperature | °C | +10°C | |
| Mixing ratio | P.b.w | 8:1 | Resin: Hardener |
| Viscosity | cps | ~280 | @ 30°C (Mixing of Part A and part B) |
| Compressive strength | N / mm ² | ≥35 | 1 Day at 30°C |
| | N / mm ² | ≥55 | 7 Day at 30°C |
| | N / mm ² | ≥60 | 14 Day at 30°C |
| Full Dry | Hrs | 24 | |

*All the technical Values were determined in laboratory, at a temperature of 30° C and 65% relative humidity

Product Characteristics for MC DUR 1264

| | |
|----------------|--|
| Colour | Clear Brown Liquid |
| Cleaning agent | MC-Thinner EP Water or water-based cleaners must not be used under any circumstances |
| Delivery | 1 kg Hardener and 4 kg Resin |
| Self life | 9 Month |
| 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/OCT2020, 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.