



BE SURE. BUILD SURE.

MC-DUR 1264 KF M

Ultra Low Viscosity Epoxy Injection Resin

Product Properties

- Low viscosity duromer resin based on epoxy
- Unfilled, unpigmented
- Solvent-free
- Good capillary absorption
- Good adhesion to concrete
- Durable

Areas of Application

- Structural crack filling of concrete, brickwork and similar building materials under dry conditions
- Formulated with lower viscosity and extended working time, making it particularly suitable for use on pre-stressed structures subjected to dynamic loading
- Suitable for crack widths > 0.1mm
- Suitable for gravity pour / penetration method

Application

Preparation

Before injection, the structure's cracks and voids have to be inspected according to technical standards and regulations, and an injection concept is to be planned.

Pressure injection can be carried out through "adhesion packers" (up to 60 bars) and "bore packers" (up to 200 bars).

When using adhesion packers, the surfaces should be dry and sound. Laitance, loose material and contaminants must be removed with suitable tools. Any dust should be blown away with dry, oil-free compressed air. If the structure is subject to dynamic loading, the adhesion packers should be fixed and the crack face sealed with MC-DUR Kleber PU 47, which is flexible. For static cracks, use MC-DUR Kleber EP 34.

When using bore packers, drill-dust must be removed from the bore hole and from the surface with compressed air or by industrial vacuum cleaner or other suitable techniques.

Mixing

MC-DUR 1264 KF M consists of two-components, Part A (base) and Part B (hardener). Before injection, it is essential that Part B is emptied into Part A and carefully mixed by means of a slowly rotating mechanical mixer.

After mixing the materials should be filled into a clean container and briefly mixed again (re-potting). The re-potting is complete when the resin has been filled into the storage container of an injection pump and when it has been shortly remixed.

The pot life of MC-DUR 1264 KF M depends on the amount of resin mixed and the ambient temperature.

Injection

Filling of cracks without pressure is ensured by capillary attraction or, for wider cracks which can be filled from above, by the effects of gravity.

Filling of cracks under pressure by injection is achieved with the single-component injection pump MC-I-510.

When filling cracks, the temperature of the structure should not drop below +8°C and must be 3°C above dew point.

Cleaning

All injection machine and tools can be cleaned with MC-Thinner EP on completion of work or any extended break.

Safety Advice

For all work with injection resins, the appropriate protective clothing, safety glasses and gloves and etc. must be worn.

The instructions in the safety data sheet and/or the instruction manuals must be followed.



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Technical Data for MC-DUR 1264 KF M

Characteristics	Unit	Value	Comments
Mixing Ratio	p.b.w.	3 : 1	Part A : Part B
Density (mixed)	kg/dm ³	~1.07	DIN 53 479
Viscosity	mPa·s	~100	DIN EN ISO 3219
Compressive Strength @ 7 days	N/mm ²	~50	DIN EN ISO 604
Adhesion by Tensile Bond strength	N/mm ²	3.0	BS EN 12618-2
Slant sheer bond strength	N/mm ²	>35	BS EN 12618-3
Tensile strength	N/mm ²	>40	DIN 53455
Elongation at break	%	~10	DIN 53455
Application Time	minutes	~60	0.2kg mix
Minimum Application Temperature	°C	+8	air, substrate and material temp.
Glass Transition Temperature	°C	~45	ASTM D3418-82

* All technical values relate to 23°C and 50% relative humidity

Product Characteristics for MC-DUR 1264 KF M

Colour	Transparent
Cleaning Agent	MC-Thinner EP Water of water-based cleaners must not be used under any circumstances
Packaging	1 kg set
Storage	Can be stored in shaded, cool and dry conditions for 12 months in original unopened packs. Storage temperature should not fall below +10°C or exceed +35°C. Same conditions are valid for transport.
Disposal	In the interest of the environment, please empty all packs completely and in accordance with statutory regulations.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets.

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 11/23. 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.