



# MC-DUR Grout LE-10

## Two Component, Low Exothermic, Low Viscous, Epoxy Grout

### Product Properties

- Non-Shrink hence Provide Volumetric dimension stability
- Solvent free hence user friendly
- Exhibits excellent properties like high compressive and tensile strength
- Rapid hardening and High strength.
- Available in Pre-packed components hence it is very easy for mixing
- Suitable for Grouting height 3mm to 15mm with more than 95% EBA
- Low exothermic hence no chance of thermal crack in curing period.

### Areas of Application

- Suitable for machine foundation
- Suitable for base plate grouting
- Suitable for rail tracks and for fixing bolts and anchor
- Suitable for wind turbine and Heavy machinery base plate grouting subjected to Dynamic load resistance

### Application Notes

#### General

**MC-DUR Grout LE-10** is a two-component solvent free epoxy resin-based, Low Viscous product. The third component is a fine Silica Filler material. When mixed with this filler, supplied in ready to use form, **MC-DUR Grout LE-10** exhibits excellent properties like high compressive and tensile strength, rapid hardening along with low exothermic properties of epoxy grouts.

For any Mechanical Baseplate grouting it is advisable to grout the anchor bolt pockets fast. Then grouting under the base plate is recommended. During application and within the fast few hours after pouring, strong vibrations and shocks near the grout area must be avoided

#### Substrate Preparation

The Substrates for grouting must be free from oil, grease or any other unsound material. Cleaning should be done by means of Hydraulic Water blasting or similar means till achieving a durable sound surface. The surface must be Dried completely prior to grouting.

#### Placing

The grout needs to be applied immediately after mixing. Pouring of the grout should be continuous and from one side to avoid any air entrapment. For the large area grouting, the grouting should be done from the middle by help of pipe or funnel or any lurching platform. During grouting care should be taken to release the entrapped air so that more than 95% EBA can be achieved.

#### Form work

Must be Rigid and leak-proof. The form work should be strong enough to provide suitable support for flowing and water tightness and prevent the grout matrix from budging. The shoulder length should be maintaining maximum 20mm.

Grouting should not carry out in the areas subjected to unrestrained condition at any condition. Grouting should be stopped immediately at the surface temperature +45° C and +5° C.

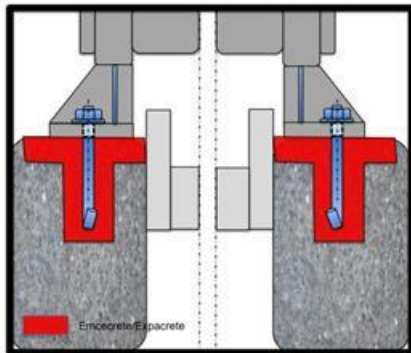
#### Mixing

**MC-DUR Grout LE-10** is a two-component solvent free flowable epoxy grout. Before mixing, the base component is thoroughly mixed and then the hardener is added. The mixing ratio by weight (pbw) should be Resin: Hardener i.e. 3: 1.

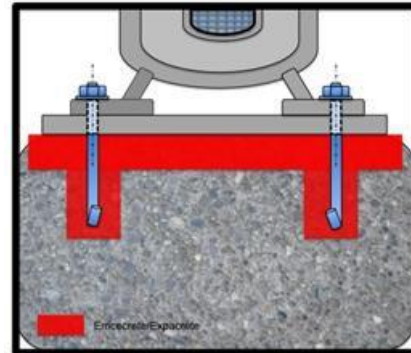
1<sup>st</sup> mixing of resin and hardener thoroughly is recommended for maximum for 1 min. After thorough mixing, empty the mix into a clean container and mix again for 1 to 2 min before application.

## Further Instructions / Precautions

Application Example



Application Example



### Technical Data for MC-DUR Grout LE-10

Characteristic	Unit	Value*	Comments
Density	Kg/lit	2.2±0.05	Mixed system at 30° C
Maximum Particle size	mm	0.6	
Recommended Grouting Depth	mm	3 - 15	
Mixing Ratio	Kg	3	Resin (by weight)
	Kg	1	Hardener (by weight)
Flowability	mm	225	As per IS 5512 @ 30° C
Effective Bearing area	%	≥95	As per ASTM C 1339
Compressive Strength	N/mm <sup>2</sup>	≥60	After 24 hours as per ASTM C 579
		≥80	After 3 Days as per ASTM C 579
		≥100	After 7 Days as per ASTM C 579
Pot Life	min	~70	100g mass at 30° C
Peak Exotherm	°C	~43	as per ASTM D 2471 of 415 ml volume @ 25° C
	°C	~54	as per ASTM D 2471 of 415 ml volume @ 34° C

### Product Characteristics for MC-DUR Grout LE-10

Type of Product	Two component System
Form	Resin & Hardener
Color	Brown
Shelf Life	12 Months from date of Manufacture if stored in Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Delivery	Resin : 4.5 kg in (4L bucket) Hardener : 1.5 kg in (1L bucket)
Disposal	Empty packs completely and dispose off carefully to protect our Environment

### 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/R0/200307, 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.