



MC-DUR Grout

Three Component, High early strength, Solvent Free, 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 up to 75mm with more than 85% 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 is a three-component solvent free epoxy resin-based product. The third component is a suitably graded Silica Filler material. When mixed with this filler, supplied in ready to use form, **MC-DUR Grout** 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 50mm.

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.

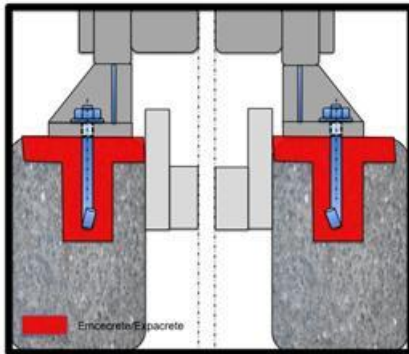
Mixing

MC-DUR Grout is a three-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: Filler i.e. 4.5: 1.0: 25.0 (Filler can be adjusted from 23 – 25 according to change in seasonal temperature)

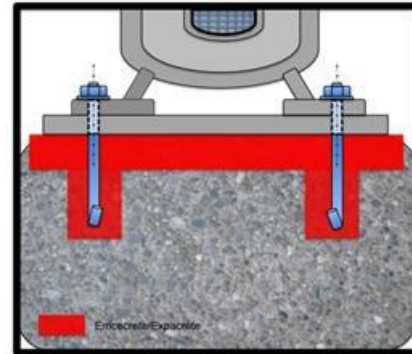
1st mixing of resin and hardener thoroughly is recommended for maximum for 1 min. After thorough mixing, empty the mix into a clean container and mix again before the fillers are added. The epoxy thus prepared is mixed with the Third component filler, which is supplied in a ready to use form.

Further Instructions / Precautions

Application Example



Application Example



Technical Data for MC-DUR Grout

Characteristic	Unit	Value*	Comments
Density	Kg/lit	2.2±0.05	Mixed system at 30° C
Mixing Ratio	Kg	4.5	Resin (by weight)
	Kg	1.0	Hardener (by weight)
	Kg	25.0 (23-25)	Filler (by weight)
Compressive Strength	N/mm ²	≥85	After 24 hours as per ASTM C 579
		≥95	After 7 Days as per ASTM C 579
		≥100	After 28 Days as per ASTM C 579
Pot Life	min	~43	100g mass as per FIP 5.1
Peak Exotherm	°C	41	as per ASTM D 2471 of 415 ml volume @ 25° C
	°C	51	as per ASTM D 2471 of 415 ml volume @ 30° C

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

Product Characteristics for MC-DUR Grout

Type of Product	Three component System
Form	Resin, Hardener & Filler
Color	Translucent
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 5kg bucket Hardener : 1 kg in 1kg bottle Filler : 25 kg in pp bag
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/191204, 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.