



MC-DUR 1250

Two Component, Solvent free, Epoxy Grout

Product Properties

- Solvent free fillable Epoxy Grout
- Rapid development of compressive & flexural strength
- High impact resistance
- Effectively sustain dynamic loads
- Can be made into pourable, flowable, trowelable Epoxy Grout on site as per requirements

Areas of Application

- Is suitable as a mechanical & chemical resistant coat on steel & concrete based substrates
- Can also be used as a joint filler for acid proof & normal tiles
- Can be used to make Epoxy Repair Mortars and Grouts

Application Notes

General

MC-DUR 1250 is a pure solvent free epoxy resin that is highly fillable to obtain economical epoxy screeds for abrasion resistant surfaces or epoxy repair mortars or grouts. The degree of filling can be established at site depending upon requirements (pourable, flowable, trowelable, etc.). **MC-DUR 1250** is very suitable as a mechanical and chemical resistant coat on both steel and concrete bases.

Coat thickness of **MC-DUR 1250** can be varied by varying the size of aggregates added. The mixing proportions listed below are recommended guidelines and site trials are essential to determine the exact mixing proportions. It can be also used as joint filler for acid-proof & normal tiles.

Advantages

MC-DUR 1250 screeds, mortars and grouts distinguish themselves by shrinkage free hardening and rapid development of compressive and flexural strength within very short time. **MC-DUR 1250** sustains dynamic loads effectively and possesses high impact resistance.

Instruction for use

The base must be clean, free of oils, greases and any other adhering undesirable influences and should possess enough compressive strength to carry intended loads. The surface pull of strength should exceed 1.5 N/mm². All loose and chemically damaged substrate portions should be thoroughly removed before application of **MC-DUR 1250** based grout, screed or mortar.

First of all the resin component of the product shall be stirred alone, then the hardener should be added to it and thoroughly mixed using slow rotating mechanical drill paddles. The contents of the mixture should be completely emptied into a clean container and mixed again to ensure homogeneity. Mixing ratio for the resin and hardener is 2:1 p.b.w. Please ensure both the resin and hardener containers are completely emptied. The aggregates/filler can be added at this stage. A stirring device or a mixer can be used for mixing. Depending upon the characteristics desired suitable maximum aggregate size and proportions could be selected. Some Gradations are recommended below.

Aggregate grading for Grain size 0 to 8 mm

% of Mix	Grain Size
25	0 to 3 mm
25	1 to 2 mm
50	4 to 8 mm

Aggregate grading for Grain size 0 to 16 mm

% of Mix	Grain Size
30	0 to 3 mm
25	1 to 2 mm
25	4 to 8 mm
20	8 to 16 mm

Some Recommended Mixing Ratios using Fine Aggregates:

- 1 p.b.w. **MC-DUR 1250**: 2 p.b.w. aggregate
Consumption: Approx. 650 gms/m²/mm thickness
Consistency : Self Compacting
- 1 p.b.w. **MC-DUR 1250**: 3 p.b.w. aggregate
Consumption: Approx. 520 gms/m²/mm thickness
Consistency: Flowable
- 1 p.b.w. **MC-DUR 1250**: 5 p.b.w. aggregate
Consumption: Approx. 360 gms/m²/mm thickness
Consistency: Compactable

Some Recommended Mixing Ratios using Coarse Aggregate:

- 1 p.b.w. **MC-DUR 1250**: 2.5 p.b.w. aggregate
Consumption: Approx. 600 gms/m²/mm thickness
Consistency: Self Compacting
- 1 p.b.w. **MC-DUR 1250**: 3.5 p.b.w. aggregate
Consumption: 490 gms/m²/mm thickness
Consistency: Flowable
- 1 p.b.w. **MC-DUR 1250**: 6.0 p.b.w. aggregate
Consumption: Approx. 330 gms/m²/mm thickness
Consistency: Compactable



Further Instructions / Precautions

General Mixing Ratios for Epoxy and Aggregates

Gradation of Sand	Mixing Proportion (p.b.w)	Thicknesses and surface Orientation
0.0 to 1.5 mm	1:1	Thickness 1-3 mm
0.2 to 1.0 mm	1:1.5	Thickness 3-6 mm
0.5 to 2.0 mm	1:2	Thickness 3-6 mm
0.5 to 1.0 mm	1:4	Thickness 6-8 mm
0.1 to 0.3 mm	1:1.5	Horizontal surface
0.1 to 0.3 mm	1:1	Vertical surface

Application Example



Technical Data For MC-DUR 1250

Characteristic	Unit	Value	Comments
Minimum application temperature	°C	+5°C	
Pot life	Minutes	20 to 30	
Mixing ratio (Flow)	Parts by weight	02:01 (30 cm)	Resin: Hardener (Pourable)
		02:01:06 (23 cm)	Resin: Hardener: Filler (Pourable)
		02:01:10 (18 cm)	Resin: Hardener: Filler (Pourable)
		02:01:18	Resin: Hardener: Filler (Trowel able)
Compressive Strength (3 Days)	N/mm ²	40	02:01:(Resin: Hardener:)
		50	02:01:06(Resin: Hardener: Filler)
		60	02:01:10(Resin: Hardener: Filler)
		75	02:01:18(Resin: Hardener: Filler)
Compressive Strength (7 Days)	N/mm ²	75	02:01:(Resin: Hardener:)
		80	02:01:06(Resin: Hardener: Filler)
		85	02:01:10(Resin: Hardener: Filler)
		90	02:01:18(Resin: Hardener: Filler)

Product Characteristics for MC-DUR 1250

Type of Product	Solvent Free, Fillable Epoxy
Form	Resin, Hardener and Filler
Colour	Translucent
Shelf Life	9 months from date of Manufacture
Delivery	Resin: 40kg Pails and 5 kg Cans. Hardener: 5 kg cans and 1 kg bottles
Storage	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
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/191212, 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.