



CL – EPOFLOR EM313SF

SOLVENT-FREE EPOXY MORTAR SCREED (4mm – 20mm thickness)

DESCRIPTION

CL – EPOFLOR EM313SF is a three-component solvent-free epoxy screed with aggregate that provides heavy duty, chemical resistant and hard wearing floor finish.

FIXES

Suitable for wet and dry process manufacturing premises, car parks, workshops and warehouses which are subjected to heavy traffic, impact and chemical spills.

FEATURES

- Solvent-free and low odour
- Seamless and hygienic finish
- Excellent chemical resistance to sugar and most acids
- High abrasion resistance
- Non slip finish

TECHNICAL INFORMATION

Pot Life	: 20 - 30 mins at 30°C
Light foot traffic	: 12 hours
Full traffic	: 48 hours
Fully cure	: 7 days
Compressive strength	: > 60N/mm ² (binder)
Pull Out Adhesion strength	: > 1.5 N/mm ² (concrete failure)
Abrasion resistance	: < 0.5g wt loss @2kg load, 1000 cycles (ASTM 4060:1995)
Mixing Ratio (A:B:C)	: 2.5 : 1.5 : 29
Coverage	: 2.2 kg/m ² @ 1mm thick

Chemical Resistance:

Type of chemical	Excellent	Good
Sulfuric Acid 25%		O
Hydrochloric Acid 10%	O	
Citric Acid 10%	O	
Acetic Acid 5%	O	
Lactic Acid 10%	O	
Sugar Syrups		O
Caustic Soda 50%		O
Detergent	O	
Oil	O	
Methanol	O	
Petrol	O	
Acetone		O

SUBSTRATE CONDITION

- Moisture content less than 5%.
- Substrate temperature: min. +10°C, max. 30°C
- Ambient temperature: min. +10°C, max. 30°C
- Relative humidity: max. 80% RH

SURFACE PREPARATION

Surface must be treated by shot blasting or scarification in order to remove cement laitance and to achieve open textured surface. Thereafter, followed by vacuuming. Loose contaminants must be removed mechanically to ensure that the substrate is sound. All damaged and uneven surfaces of floor have to be repaired and levelled. Surface must be dry, dust free and free from rising damp. Prime the surface with solvent free primer CL-EPOFLOR P111SF or solvent based primer CL-EPOFLOR P121SB at the rate of 0.25kg/m². When using the latter primer, two coats may be necessary if the substrate is porous.

MIXING

Pour Part B (Hardener) into Part A bucket and mix with mechanical mixer at low speed for 2 minutes. Then transfer the mix into a larger bucket and into which Filler (Part C) or quartz sand is added. Mix at low speed until the slurry is homogeneous. Be careful not to entrap air.

APPLICATION

Immediately after mixing, pour the mix onto the primed surface and spread it by using sledge or wooden float at a depth slightly more than required thickness. Thereafter, use steel blade trowel to compact it to the required thickness. For sealing purpose, apply a scratch coat / seal coat before applying top coat. Coving can be formed with CL-EPOFLOR EM313SF in conjunction with CL-EPOFLOR P111SF primer on vertical surfaces.

SUBSTRATE MOVEMENT

All moving joints can be over coated with CL-EPOFLOR EM313SF. However, CL-EPOFLOR EM313SF may still reflect the cracks at the construction joints if there are substrate movements.

PRECAUTION

- Do not apply when temperature falls below 10°C.
- Temperature should not fall below 5°C in 24 hours after the application.

COLOUR

Available in natural colour.

SHELF LIFE

1 year when stored in a cool and dry place, sealed in an unopened container.

PACKING

Available in:

- 33kg sets, consists of 2.5kg tin Part A, 1.5kg tin Part B and 29kg bag Part C.
 - 273kg sets, consists of 20kg tin Part A, 12kg tin Part B and 8 x 29kg bag Part C.
- Optional for Part C. Part C can be replaced by quartz sand 0.3 – 1.2mm.

Disclaimer: Specification are subject to change without notification.

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