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CI/SfB

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TECHNICAL DATA SHEET TDS113  
PUBLISHED MARCH 2003

## SEALOFLOREP MORTAR

### DESCRIPTION

SEALOFLOREP MORTAR is a three-component epoxy resin based flooring material trowel applied as a coloured, semi-dry dense mortar to a final thickness of generally 4 - 6mm.

### USES

Heavy manufacturing, workshops, battery rooms, food and drink processing areas, loading bays. SEALOFLOREP MORTAR can be used to form coving and plinths in complementary colours to other more fluid systems such as SEALOFLOREP SMOOTH.

### ADVANTAGES

- \* TOUGH.  
Suitable for heavy industrial use.
- \* CHEMICALLY RESISTANT.  
Suitable for areas of chemical spillage.
- \* TEXTURED SURFACE  
Providing safe slip resistant work areas.
- \* VERSATILE  
Ideal for covings, plinths and steps.

### COVERAGE

Typical coverage is 2.3m<sup>2</sup> per 25kg pack at nominal 5mm thickness.

### PACKAGING

SEALOFLOREP MORTAR is available in 25kg three component packs, consisting of resin (A) and hardener (B) and aggregate (C).

### TECHNICAL DATA

Colours:	Grey – other colours available subject to order quantity.
Mixed Density:	2200kg/m <sup>3</sup>
Application Thickness:	Normally 4 – 6 mm (Max: 15mm ; Min: 3mm)
Compressive Strength: (to BS6319 Part 2)	67N/mm <sup>2</sup> : 2 days@ 20°C 75N/mm <sup>2</sup> : 7 days@ 20°C  37N/mm <sup>2</sup> : 2 days@ 10°C 63N/mm <sup>2</sup> : 7 days@ 10°C
Flexural Strength: (to BS6319 Part 3)	12N/mm <sup>2</sup> : 7 days@ 20°C
Tensile Strength: (to BS6319 Part 7)	25N/mm <sup>2</sup> : 7 days@ 20°C
Recommended Application Temperature (DO NOT APPLY BELOW 4°C)	+10 to +25°C
Service Temperature:	-30 to +55°C
Open Work Time at 20°C:	45 minutes
Initial Cure:	12 hours at 20°C
Light Trafficking:	24 hours at 20°C
Full Cure:	7 days at 20°C

Note: Rate of strength development is temperature dependent, low temperatures will result in longer cure times.

## Chemical Resistance:

In practice it is always recommended to seal SEALOFLOP EP MORTAR with DRYCOTE CLEAR or FLORSHIELD to ensure chemical resistance in use and ease of cleaning.

CHEMICAL	24 hrs	48 hrs	7 day	14 day
Hydrochloric Acid 30%	U	D	D	D
Nitric Acid 10%	U	U	U	U
Sulphuric Acid 10%	U	U	U	U
Acetic Acid 5%	U	U	U	U
Citric Acid 5%	U	U	U	U
Lactic Acid 5%	U	U	U	U
Ammonium Hydroxide 5%	U	U	U	U
Ammonium Hydroxide 30%	U	U	U	U
Sodium Hydroxide 30%	U	U	U	U
Bleach Solution 5%	U	U	U	D
Brine 10%	U	U	U	U
Sugar Solution 10%	U	U	U	U
Detergents	U	U	U	U
Hydraulic Fluids	U	U	U	LA
Iso Propyl Alcohol	U	U	U	U
Linseed Oil	U	U	U	U
Lemonade Concentrate	U	U	U	U
Petrol and Jet Fuels	U	U	U	U

KEY: U Unaffected D Discoloured  
A Attacked L Light Attack

All specimens were fully immersed for the duration of the test. Tests were carried out under controlled laboratory conditions and are for guidance only. For details regarding resistance to chemicals other than those listed contact the Technical Services Department.

### NB:

- 1 In all cases of chemical spillage it is essential that the spillage be removed as quickly as possible and the surface washed down with water.
- 2 Keep water and chemicals off the surface before SEALOFLOP EP MORTAR has cured fully (7 days @ 20°C).

In practice it is always recommended to seal SEALOFLOP EP MORTAR with DRYCOTE CLEAR or FLORSHIELD to ensure chemical resistance in use and for ease of cleaning

## METHOD OF USE

### Surface Preparation

Correct preparation is essential for the successful application of SEALOFLOP EP MORTAR.

### Concrete:

Must be sound and free from all traces of laitance, oil and grease. Surfaces should be scarified to present a good mechanical key and allow penetration of EPOXY GP PRIMER. Suitable methods of scarifying include scabbling, planing, shot blasting and hot compressed air techniques. When used for patch repairs, saw or chisel into the substrate at the edges of the repair area to a depth of 4mm to eliminate the need to feather edge. Substrates saturated by oil and grease from previous usage present a particular problem and should be given special treatment such as HCA followed by degreasing.

### Steel:

Remove all loose scale and rust, preferably by grit blasting, grinding or with a needle gun back to a bright metal finish, and clean down. Remove grease etc, with a suitable solvent. The primer should be applied immediately.

### PRIMING

After preparation and before application of SEALOFLOP EP MORTAR a priming coat of EPOXY GP PRIMER should be brushed well into the surface.

EPOXY GP PRIMER is available in 500ml, 1litre and 5 litre two component packs. EPOXY DPM PRIMER is available in 5 litre two component packs.

The primer is supplied in two tins marked A and B. These must be thoroughly mixed together and applied by brush as soon as possible after mixing. Pot life is approximately ½ hour depending on temperature, but treated surfaces will remain tacky for approximately one hour depending on temperature.

## MIXING

All mixing must be carried out using a forced action pan mixer. Pack A should be stirred initially to redisperse any settled pigment. Empty Pack A and Pack B into mixer whilst mixer is running. Continue mixing for 1-2 minutes.

Add the aggregate in small portions. Continue mixing until a completely homogeneous mortar is obtained. Mix for 3 to 5 minutes. DO NOT OVERMIX.

Suitable mixers are manufactured by Refina, Cretangle or Pennine.

## APPLICATION

SEALOFLOL EP MORTAR is applied whilst the primer is still tacky. Spread and compact to the approximate required thickness using a screed bar or wooden float. Use steel or wood temporary screed bars or formwork to ensure a minimum thickness over a prepared concrete surface. Close up the surface of the mortar using a clean steel trowel. To reduce marking with light colours, use a stainless steel trowel.

## Overcoating:

Where necessary (in constant wet work or aggressive chemical spillage areas) SEALOFLOL EP MORTAR can be overcoated to seal the surface. Allow the mortar to cure for at least 8 hours before mixing and

applying the desired sealing coat (eg. DRYCOTE CLEAR/ PIGMENTED or FLORSHIELD).

## Joints:

Expansion and movement joints must be carried through topping. Pouring Grade TWO PART POLYSULPHIDE is ideally suited for expansion joints, JOINTFIL for construction joints.

## CLEANING OF TOOLS

Immediately after use all tools and mixing equipment should be cleaned with THINNERS NO. 3.

## STORAGE

SEALOFLOL EP MORTAR must be stored in cool, dry conditions away from moisture or direct sunlight. This product will have a twelve month shelf life when stored in these conditions in original unopened containers.

## HANDLING

SEALOFLOL EP MORTAR contains liquid epoxy resin and a polyamine compound. Please refer to the relevant Health and Safety Data Sheet for detailed information regarding the handling of this product.

*We endeavour to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, we have no control over the circumstances in which our product is used and it is therefore important that the end user satisfy himself by prior testing that the product is suitable for his specific application and that the actual conditions of use are suitable. Accordingly, no responsibility can be accepted, or any warranty given by ourselves, our representatives, agents or distributors, other than that the product as supplied by us will meet our written specification. Products are sold subject to our standard conditions of sale and each purchaser and end user should at all times ensure that he has consulted our latest product instructions and safety information.*

