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CI/SfB

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TECHNICAL DATA SHEET TDS114
PUBLISHED FEBRUARY 2003

SEALOFLOREP SMOOTH

DESCRIPTION

SEALOFLOREP SMOOTH is a three-component epoxy resin based flooring material applied as a coloured, semi-free flowing liquid to a final thickness of 2-3mm.

USES

SEALOFLOREP SMOOTH is ideal for use in manufacturing, electrical component assembly, food and drink processing, workshops and maintenance areas, warehouse and storage areas.

ADVANTAGES

- * SEAMLESS.
Easily cleaned and hygienic.
- * CHEMICALLY RESISTANT.
Fully sealed and compacted.
- * TOUGH
Long maintenance free life.
- * DECORATIVE
Improves work environment.
- * FAST APPLICATION
Minimal downtime and therefore cost effective floor installations

PACKAGING

SEALOFLOREP SMOOTH is available in 20 litre three component packs, consisting of resin (A) and hardener (B) and aggregate (C).

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

EPOXY DPM PRIMER is available in 5kg two component packs.)

TECHNICAL DATA

Colours:	Subject to order quantity -Red, Grey, Blue, Green, Buff, Platinum Grey
Mixed Density:	1950kg/m ³
Application Thickness	Normally 2 – 3 mm (Max: 5mm; Min: 1mm)
Compressive Strength: (to BS6319 Part 2)	70N/mm ² : 7 days@ 20°C
Flexural Strength: (to BS6319 Part 3)	25N/mm ² : 7 days@ 20°C
Tensile Strength: (to BS6319 Part 7)	15N/mm ² : 7 days@ 20°C
Abrasion Resistance (Taber H22 Wheel load 1000g ; 100 Revs)	0.08gm (3.18kg – 30N/mm ² concrete)
Heat Distortion Temperature	45°C
Application Temperature (DO NOT APPLY BELOW 8°C)	+10 to +25°C
Service Temperature:	-20 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: Low temperatures will result in longer cure times and reduced flow properties.

COVERAGE

Typical coverage is 8.0m² per 20 litre pack at nominal 2.5mm thickness.

Chemical Resistance:

Specimens were fully immersed for the duration if 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.

CHEMICAL	7 day s	14 day s	21 day s	28 day s
Acetone	U	U	U	U
Styrene	U	U	LA	LA
Butyl Acetate	U	U	U	U
Trichloroethylene	LA	LA	LA	LA
Toluene	U	U	U	U
Xylene	U	U	U	U
Methyl Methacrylate	U	LA	LA	A
50% Phosphoric Acid	LA	A	A	X
50% Sulphuric Acid	D	LA	LA	A
25% Sulphuric Acid	U	D	D	LA
18% Hydrochloric Acid	D	D	LA	LA
10% Hydrochloric Acid	U	U	U	U
30% Nitric Acid	LA	A	A	A
10% Acetic Acid	LA	LA	A	A
5% Citric Acid	LA	LA	A	A
5% Lactic Acid	LA	LA	A	A
32% Ammonium Hydroxide	U	U	U	U
50% Caustic Soda	U	U	U	U
Petrol (Unleaded)	U	U	U	U
Diesel	U	U	U	U
30% Sugar Solution	U	U	U	U
Distilled Water	U	U	U	LA
Vinegar	U	U	U	U
Detergent Solution	U	U	U	U
Mineral Oil	U	U	U	U
Beer	U	U	U	U
Wine	U	U	U	U
Vegetable Oil	U	U	U	U
De-Icing Fluids	U	U	U	U
Skydrol				

KEY: U Unaffected D Discoloured
 A Attacked LA Light Attack
 X Destroyed

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 SEALOFLOOR EP SMOOTH is fully cured (7 days @ 20°C).

METHOD OF USE

Surface Preparation

Correct preparation is essential for the successful application of SEALOFLOOR EP SMOOTH.

Concrete:

All substrates should be dry (max 5% moisture content), sound and free from all traces of laitance, oil and grease. Surfaces should be scarified to present a good mechanical key. Suitable methods of scarifying include scabbling, planing and shot blasting. 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 SEALOFLOOR EP SMOOTH a priming coat of EPOXY GP PRIMER should be brushed well into the surface.

This 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 1/2 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

SEALOFLOOR EP SMOOTH is applied when the primer is dry. Normally this will be within 2 to 4 hours after application, although longer in cold weather. Pour out the mixed material onto the prepared and primed surface. Spread to the correct (2 – 3mm) even thickness using a straight edged or toothed trowel. After application thoroughly de-aerate the material by CONTINUALLY rolling with a spiked roller during the first 30 minutes, paying particular attention to edge and joint details. Use of spiked shoes is recommended

NOTES

Gloss Finish:

Due to the high gloss finish of SEALOFLOOR EP SMOOTH existing surface irregularities may show through the applied topping – these should be repaired before application with a suitable mortar, such as SEALOCRETE EPOXYPATCH GP.

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.

Alternative Finishes

Alternative finishes incorporating anti slip aggregates, sprinkle on flakes and special aggregates are all possible. Contact SEALOCRETE Technical Department for advice.

Joints:

Expansion and movement joints must be carried through topping. Pouring Grade TWO PART POLYSULPHIDE is ideally suited to 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

SEALOFLOOR EP SMOOTH 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.

HEALTH & SAFETY

SEALOFLOOR EP SMOOTH 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.

