



## SOLPOXY ES

### Epoxy Based Chemical & Abrasion Resistant Screed

#### DESCRIPTION

SOLPOXY ES is a solvent free, non-shrink, epoxy resin based mortar screed. The epoxy screed has excellent mechanical and abrasion resistance properties and is resistant to a wide variety of chemicals. This system is designed to provide a heavy duty topping for industrial floors. The screed can be applied in thicknesses from 4mm to 20mm in a single lay.

#### TYPICAL USES

Used to provide a heavy duty floor screed for:

- Chemical plants & factories, Ware houses & workshops
- Dairies & food processing plants
- heavy engineering industrial floors
- metal treatment plants
- Substations & battery rooms

#### ADVANTAGES

- High impact and abrasion resistance
- High compressive, flexural and tensile strength.
- Good resistance to chemicals
- Non shrink
- Non tainting
- Solvent free

#### PACKAGING:

SOLPOXY ES is available in 10 Litre KIT.

#### TECHNICAL PROPERTIES

Density ( g/cc )	1.95±0.05
Application Life	>60 minutes
Compressive strength @ 7 days	>80 N/mm <sup>2</sup>
Flexural strength, @7 days, ]	>15 N/mm <sup>2</sup>
Tensile Strength, @7 days	>12 N/mm <sup>2</sup>
Shear bond strength @7 days,	>20 N/mm <sup>2</sup>
Abrasion resistance, [mg]	<50
impact resistance from a height of 2 m	No indentation
Chemical resistance	ph 2.0 to 11.5
initial cure [hrs] 16-18	16 to 18 hours
Full Cure	7 days
Application Temperature	5 to 35 ° C
Service Temperature	5 to 70 ° C

The properties shown above were obtained under laboratory conditions and may vary in practice.

#### COVERAGE:

SOLPOXY ES 1 LITRE l/m<sup>2</sup>/mm THICKNESS

## **APPLICATION INSTRUCTION**

### **SURFACE PREPARATION**

Clean the surface of all dust, dirt, oil & grease, cement laitance and all loosely adhering particles. New concrete surface shall be at least 28 days old and the surface moisture content less than 5%. Captive/grit blasting and grinding is recommended for the most effective surface preparation. Surface irregularities and blow holes shall be repaired with SOLPOXY BF (Epoxy resin based blow hole filler and skimming mortar) or SPADREP range (cementitious repair mortar). Alternatively an epoxy resin based scratch coat can be used when repairing larger areas (> 0.5 m<sup>2</sup>). The surface after carrying out the necessary cleaning shall be vacuumed for removing the dust debris left over after the cleaning process.

### **PRIMING**

The surface shall be primed with a solvent free epoxy primer SOLPRIME EP @ 4-5 m<sup>2</sup>/l.

### **MIXING**

Mix part A and B separately for 2 minutes using a heavy duty slow speed drill (300-400 rpm) fitted with a spiral mixing paddle. Pour Part B (hardener) and Part A (base) into a separate container and mix well for a few minutes. Add Part C (filler) slowly to the mixed base and hardener and continue mixing for further 3 to 5 minutes until a uniform and homogenous lump free consistency is achieved.

*NOTE: The products are supplied in pre-weighed packs, part mixing is not at all recommended, as the cured product will not achieve its full properties even if there is a small variation in the mixing proportions.*

## **APPLICATION**

The epoxy screed shall be applied immediately after mixing within its working time. Discharge the mixed mortar from the mixer and place on the floor when the primer is still in a tacky condition. Spread and compact the mortar with a wooden trowel to get a uniform thickness and complete the application with a steel trowel.

### **CLEANING**

Clean all the tools with any solvent immediately after application.

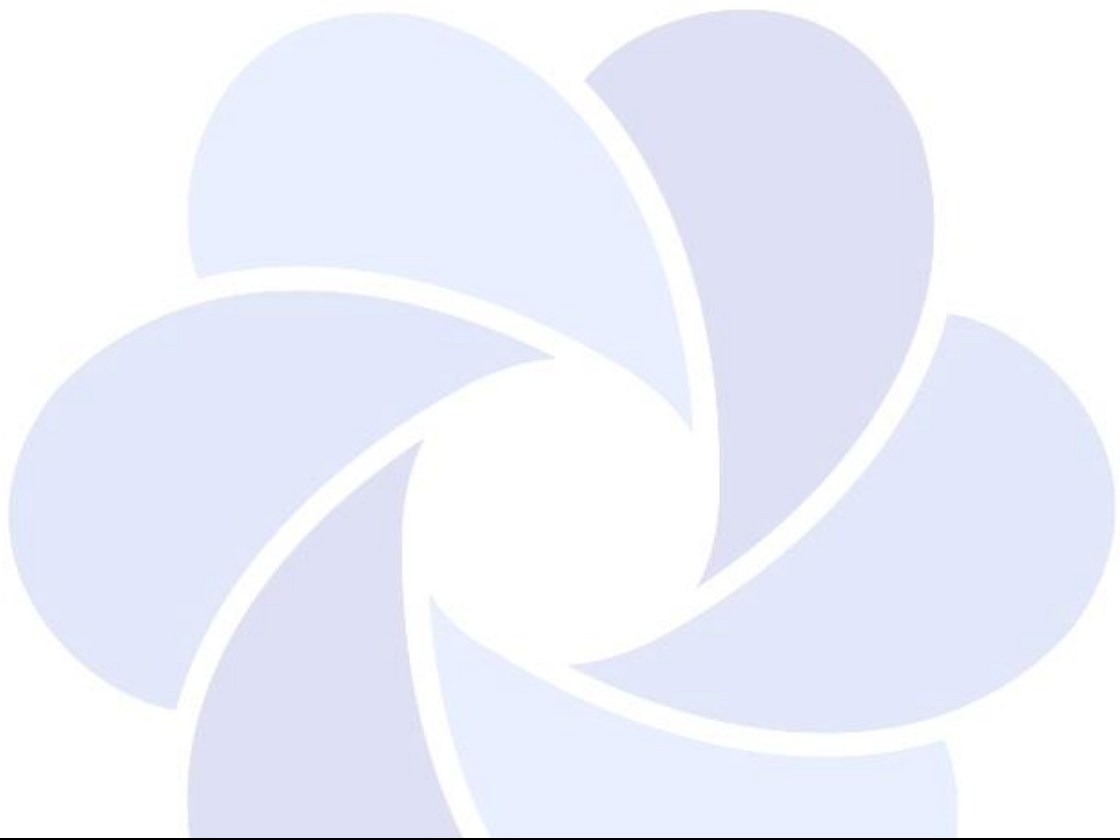
### **STORAGE**

Store all material in a cool, covered dry place. Do not expose the pails to direct sunlight and keep away from all sources of heat.

**The shelf life** of the product is 12 months in unopened condition if stored as per the recommendations. Exposure to high temperature and humidity will result in considerable deterioration of the product and reduce its shelf life.

### **HEALTH & SAFETY**

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.



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Note: Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, as the conditions of any labor involved in the application is beyond our control. BAUTECH shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of this product. It is the responsibility of the user to ensure that the product meets his particular requirements and to use it in a suitable way. Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BAUTECH representative.



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