

# EPO FLOOR SCREED

Epoxy Screed and Repair System



## DESCRIPTION

**EPO FLOOR SCREED** is a multi-component, solvent free, trowel grade epoxy floor topping consisting of base, hardener, and graded inert filler. It is specifically designed as a heavy duty topping for industrial floors of thickness 5mm and above.

## ADVANTAGES

**Durability:** Withstands foot and heavy vehicular traffic and has a good abrasion resistance.

**Chemical Resistance:** Very good resistance to industrial chemicals.

**Slip resistant:** provides a good slip resistant finish in continuous wet areas

**Coving and Repair medium:** can be used for coving and general repairs in floors subject to heavy, abrasive traffic

**Solvent free:** Low odour formulation

## TYPICAL APPLICATIONS

**EPO FLOOR SCREED** is ideal for industrial or commercial locations where a high strength, chemical and abrasion resistant, hard wearing and non-slip finish is important

- Garages
- Chemical manufacturing plants
- Machine service areas
- Oil refineries
- Steel work and heavy engineering plants
- Diaries
- Loading bays
- Warehouses

## PRODUCT DATA

<b>Form</b>	4 Component
<b>Packing</b>	28 Kg Set (A+B+C+D) (Base, hardener, inert filler & Pigment pack)
<b>Consumption</b>	10.5 Kg/m <sup>2</sup> (for 5mm thickness)
<b>Shelf life</b>	12 months in the unopened, original package as stored in dry and cool environment.

## TECHNICAL SPECIFICATION

Test Name	Standard	Average Result
<b>Density</b>	ASTM D 1475	2.10 ± 0.1 g/cm <sup>3</sup>
<b>Pot Life</b> 25 <sup>0</sup> C	-	≈ 45 minutes
40 <sup>0</sup> C	-	≈ 20 minutes
<b>Cure Time</b> 25 <sup>0</sup> C	-	≈ 12 Hours
40 <sup>0</sup> C	-	≈ 10 Hours
<b>Tensile Strength</b>	BS 6319 Part-7	≈ 12 N/mm <sup>2</sup>
<b>Bond strength</b>	ASTM C 882	≈ 2 N/mm <sup>2</sup>
<b>Compressive Strength</b>	BS 6319 Part-2	80 ± 5 N/mm <sup>2</sup>
<b>Flexural Strength</b>	BS 6319 Part-3	≈ 25 N/mm <sup>2</sup>



## APPLICATION PROCEDURE

**EPO FLOOR SCREED** should be applied by specialist contractors who must follow the procedures laid down in the Product datasheet. **EPO GULF SPECIALITIES** works with a network of such applicators that have been trained in the correct installation procedures.

## SURFACE PREPARATION

It is essential that **EPO FLOOR SCREED** is applied to sound; clean and dry surfaces in order to achieve maximum bond strength between the substrate and the flooring system. All dust and debris should be removed prior to application of the product or its primer.

**EPO GULF SPECIALITIES CO.**

Kuwait, Amghara Industrial area  
Block 4 Building 95 – 97 – 99  
P.O box 12017 – Tel: +965 22272590  
info@epogulf.com

**WWW.EPOGULF.COM**



**EPO YAPI KIMYA CO.**

Cement – Concrete Technology  
Turkey, Istanbul, Tuzla, Orhanli  
Tel: +90 2165932294  
info@epo.com.tr

# EPO FLOOR SCREED

Epoxy Screed and Repair System



## New concrete floors:

New concrete, or cementitious substrates, should be at least 28 days old and have a moisture content not exceeding 5%. Laitance deposits on new concrete are best removed by light grit blasting, mechanical scabbling or grinding.

## Old concrete floors:

Existing concrete floors which require refurbishment must be prepared to ensure a strong adhesive bond between the flooring system and the existing floor. Mechanical cleaning methods are strongly recommended particularly where heavy contamination by oil or grease has occurred or existing coatings are present. To ensure adhesion, all contamination should be removed. Proprietary chemical degreaser may be used on small areas of light contamination only.

## PRIMING

All surfaces treated with **EPO FLOOR SCREED** should be primed with **EPO FLOOR PR**, a solvent free epoxy resin primer designed for maximum absorption and adhesion to concrete substrates. Add the entire contents of the hardener tin to the base tin and mix the two primer components thoroughly for at least 2 minutes - under no circumstances should part mixing be considered. Once mixed, the primer should be applied immediately to the prepared substrate using stiff brushes and/or rollers.

The primer should be well 'scrubbed' into the substrate to ensure full coverage, but care should be taken to avoid over application or 'ponding'. Apply the **EPO FLOOR SCREED** whilst the primed surface is still tacky.

## MIXING

**EPO FLOOR SCREED** flooring is supplied in pre-weighed packs (base, hardener, pigment pack & inert filler) which are ready for immediate on-site use. Part mixing of these components is not acceptable and will affect both performance and appearance of the finished floor, and would further more automatically invalidate **EPO GULF** product guarantee.

Mix base, hardener and pigment pack component together in the mixing vessel at least for 30-60 seconds, using either a forced action mixer; or a suitable heavy duty drill machine fitted with paddle until a uniform colour is obtained.

Thereafter, the contents of the inert filler pack should be slowly added and mixing carried out for a further 3 - 5 minutes until a uniform colour and consistency is achieved.

## APPLICATION

The applicator should ensure that there are sufficient supplies of labour and materials to make the mixing and subsequent application process a continuous one for any given, independent floor area. Once mixed, the material must be used within its specified pot life.

The material should be spread to the prepared and primed substrate with required thickness using a steel trowel. Screeding rods can be used to maintain uniform thickness.

## CLEANING

Tools and equipment should be cleaned in **EPO SOLVENT** immediately after use. Spillages should be absorbed with sand or saw dust and disposed of absorbed in accordance with local regulations.

## HEALTH AND SAFETY

**EPO FLOOR SCREED** Base and Hardener and **EPO SOLVENT** should not come into contact with skin or eyes or be swallowed. Avoid prolonged inhalation of vapors. Some people are sensitive to epoxy resins, hardeners and solvents. Gloves, goggles and barrier cream should therefore be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus is recommended.

If mixed resin comes in contact with skin it must be removed before it hardens with a resin removing cream followed by washing with soap and water. **DO NOT USE SOLVENT**. Contamination of skin with any of the above products should be removed immediately with soap and water. Should accidental eye contamination occur with any of the above products, wash well with plenty of clean water and seek medical advice. If swallowed, seek medical advice immediately **DO NOT INDUCES VOMITING**.

EPO FLOOR SCREED

Ver 02/20

**EPO GULF SPECIALITIES CO.**

Kuwait, Amghara Industrial area  
Block 4 Building 95 – 97 – 99  
P.O box 12017 – Tel: +965 22272590  
info@epogulf.com

**WWW.EPOGULF.COM**



**EPO YAPI KIMYA CO.**

Cement – Concrete Technology  
Turkey, Istanbul, Tuzla, Orhanli  
Tel: +90 2165932294  
info@epo.com.tr