

## OVERVIEW

**Epirok EP1 is a versatile two-component, solvent free epoxy primer that is suitable in the most adverse conditions e.g. cold, hot or humid conditions. Due to its unique formulation and composition Epirok EP1 has excellent adhesion and penetration properties.**

## PROPERTIES

EPIROK EP1 is a two-component, solvent free epoxy primer comprised of high quality grade epoxy resins and a unique curing agent. Epirok EP1 is designed for use with most epoxy based coating and screed systems. Epirok EP1 has the following properties:

- Solvent free.
- Easy application.
- Excellent inter-coat adhesion with most epoxy systems.
- Excellent adhesion properties to most substrates.

## AREAS OF USE

- As a primer for epoxy coatings.
- As a primer for self-leveling epoxy screeds.
- As a primer for epoxy screeds (with silica broadcasting).
- As a binder for epoxy repair compounds (pastes or mortars).

## PREPARATION OF SURFACE

### **New Concrete Floors:**

Concrete should be properly cured, be more than 28 days old and have a moisture content of less than 5%. The substrate should be sound and void of oil, grease, laitance and loose friable material. Any laitance must be removed mechanically (diamond grinding or grit blasting). All dust and other debris should then be removed by vacuum cleaning.

### **Old Concrete Floors:**

A sound, clean substrate is essential to achieve maximum adhesion. As for new concrete floors, ensure that the substrate is void of oil, grease, laitance and loose friable matter. All repairs of concrete must be done using TERRACO Epirok RC (refer to TERRACO Epirok RC data sheet). The repaired substrate must be ground or sanded to the same level as the adjacent floor. No sanding is however required if an epoxy screed of more than 3mm will be applied.

Any laitance or old coating should be removed by mechanical methods (diamond grinding or grit blasting). All areas that have been primed, repaired and sanded must be vacuumed to remove all dust and grit particles before a topcoat can be applied.

## MIXING INSTRUCTIONS

Both components of Epirok EP1 must be stored at 25°C for a period of 12 hours prior to mixing / application.

Decant the entire contents of the Epirok EP1 Component 'B' (activator) into the Epirok EP 1 Component 'A' (resin) and mix thoroughly for approximately 2 minutes, preferably using a slow speed drill mixer with a spiral head attachment, until it is uniform in colour. Decant the entire content into a clean empty container and mix again.

## SPECIFICATION

Decant the mixed material onto the substrate in narrow lines in the demarcated area.

The primer should be applied in a thin, evenly distributed, continuous film, using a short or medium pile roller depending on the substrate profile.

Always use a stiff bristle brush when applying the primer in corners or areas requiring repairs.

The area to be primed should be demarcated to ensure that the correct wet film thickness is obtained and maintained.

Allow to dry overnight, and then re-prime areas where dry patches are visible. Apply primer evenly on these porous areas.

One 5 ltr kit of Epirok EP1 should cover 25m<sup>2</sup> at a wet film thickness of 200 microns.

### APPLICATION & CLEANING OF TOOLS

Do not place material in direct sunlight prior to application. Always use good quality rollers for primer application, especially if a gloss finish top coat of less than 500 microns has to be applied. Do not apply to substrates above 35°C and do not apply in direct sunlight. Never mix part kits (ratios are critical).

### HEALTH & SAFETY

Always wear protective clothing e.g. gloves, safety goggles, acid resistant clothing and safety shoes when working with hazardous chemicals. Dispose of empty containers as per local municipality regulations. Refer to relevant Material Safety Data Sheet for further information.

### PACKAGING & STORAGE

Epirok EP1 Component A is supplied in 5 ltr plastic bucket. Contents: 3.240 kg and Epirok EP1 Component B is supplied in 4 ltr plastic bucket. Contents: 2.140 kg

Stored material should not be exposed to direct sunlight.

Store material at 25°C overnight prior to use.

Store containers in a clean dry area protected from direct sunlight and extreme heat and cold.

TERRACO offers a comprehensive range of products and services for most concrete and finishing needs. Please contact the TERRACO Technical Service Department or your local TERRACO agent for further information, samples, demonstrations and instructor services. The information given in this leaflet is based upon laboratory research, as well as extensive field work and application. All products are sold subject to standard conditions of sale which are available on request. This information is based on TERRACO's present state of knowledge and is intended to provide general information on TERRACO's products and their methods of use. The prospective user is recommended to determine the suitability of TERRACO's suggestions and products before adopting them on a commercial scale.

**TECHNICAL DATA**

<b>Product</b>	Solvent free epoxy primer		
<b>Drying Time</b>	Surface dry: 8 hours		
<b>Pot Life @ 30°C</b>	50 minutes.		ASTM D 2471
<b>Colour</b>	Clear		
<b>Density</b>	1.077 g/cm <sup>3</sup>		ASTM C 905
<b>Bond Strength</b>	2.5 N/mm <sup>2</sup> Note: Failure occurred within the substrate.		ASTM D 4541:02
<b>Chemical Resistance</b>	pH 2.5 with H <sub>2</sub> SO <sub>4</sub> . pH 11.0 with Na OH. NaCl 3%. Solvent acetone. Oil (lubricating oil). Note: Blistering, loss of gloss, discolouration, swelling etc. were not observed.	: No change (after 48 hours) : No change (after 48 hours) : No change (after 48 hours) : No change (after 48 hours) : No change (after 48 hours)	ASTM D 543 ASTM D 543 ASTM D 543 ASTM D 543 ASTM D 543
<b>Material Consumption</b>	25m <sup>2</sup> @ 200 microns wet film thickness / 5 ltr kit		
<b>Application Method</b>	Roller		
<b>Packaging</b>	<b>Epirok EP1 Component A</b> – 5 ltr plastic bucket. Contents : 3.240 kg <b>Epirok EP1 Component B</b> – 4 ltr plastic bucket. Contents : 2.140 kg		
<b>Storage</b>	12 Months in original unopened containers, when stored between 15 - 25°C.		

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