

## OVERVIEW

**TERRACO Epirok CPC is a hard wearing and abrasion resistant epoxy based coating ideally suited for application on floors requiring a fine, medium or standard non-slip, durable and aesthetic finish. TERRACO EPIROK CPC is available in 16 standard colours.**

## PROPERTIES

TERRACO Epirok CPC is a solvent free coating comprised of epoxy resins, curing agents, inert fillers, additives and colour-fast pigments. The coating has the following properties:

- Non-slip finish.
- Solvent free.
- Durable coating, low maintenance costs.
- Hard wearing.
- Abrasion resistant.

## AREAS OF USE

TERRACO Epirok CPC provides a hard wearing and abrasion resistant non-slip floor coating. It is specially formulated for car park floors and other high traffic areas but can also be applied in other areas requiring low to high profile non-slip properties. As with all coatings, a thorough evaluation of operational activities must be done to establish the suitability of the coating.

## PREPARATION OF SURFACE

### **New Concrete Floors:**

Ensure that all surfaces where TERRACO Epirok CPC is to be applied are level and smooth after primer and repair compound applications. Concrete should 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. All areas requiring repairs must be cut back 10mm into the substrate to provide a good key for repair mortar. This procedure is critical especially on damaged joint areas. Ensure that all surfaces where TERRACO Epirok CPC is to be applied are level and smooth after primer and repair compound applications.

## PRIMING

The surface should be primed with TERRACO Epirok EP 1 (a two component solvent-free epoxy primer).

Decant the entire contents of the TERRACO Epirok EP1 Component 'B' (activator) into the TERRACO Epirok EP 1 Component 'A' (resin) and mix thoroughly, preferably using a slow speed drill mixer with a spiral head, until it is uniform in colour. Decant the entire contents into a clean container and mix again. Pour the mixture onto the substrate in narrow lines in the demarcated area. The primer should be applied in a thin continuous film, using a medium pile roller. One 5 litre kit of TERRACO Epirok EP1 should cover 25m<sup>2</sup> at a wet film thickness of 200 microns. The area to be primed should be demarcated to ensure that the correct wet film thickness is obtained and maintained. Allow to dry overnight, then re-prime if required where dry patches are visible. Apply primer evenly on these porous areas.

## APPLICATION & CLEANING OF TOOLS

### **Non-slip Finish (1<sup>st</sup> coat):**

The first coat must be applied between 24 and 36 hours after priming. Mix TERRACO Epirok CPC Component 'A' (resin) well using a drill mixer. Add the entire contents of the TERRACO Epirok CPC Component 'B' (activator) to the TERRACO Epirok CPC Component 'A' whilst mixing. Mix until uniform in colour and then decant into a clean container. Mix again and then pour mixed product onto the primed substrate, which should be demarcated in order to obtain and maintain the correct spreading rate as per the consumption rates specified for the non-slip finish required. Apply the coating with a short nap roller. Refer to consumption rate for 1<sup>st</sup> coat application for system specified. Care must be taken to ensure no pooling or flooding of the product prior to the non-slip aggregate broadcasting. The 1<sup>st</sup> coat application must not exceed consumption rates specified.

### **Non-slip Finish (Broadcast of Aggregate):**

Immediately after first topcoat has been applied, broadcast (scatter) the selected TERRACO Aggregate lightly at first then fully cover the entire coated area. The 1<sup>st</sup> topcoat must be completely covered by the silica aggregate particles. Various texture finishes can be achieved by scattering less aggregate into the 1<sup>st</sup> coat application.

Please note: Less aggregate will consume less product in the 2<sup>nd</sup> coat application but this will result in reduced non-slip properties.

Allow to cure overnight. Use a hard broom and vacuum cleaner to remove all loose excess silica aggregate particles. Use a steel float and scrape off any high points on the broadcasted surface. Sweep and /or vacuum clean again to remove all loose aggregate particles.

### **Non-slip Finish (2<sup>nd</sup> coat):**

The finish coat must be applied between 24 and 36 hours after the first coat application. Mix TERRACO Epirok CPC Component 'A' (resin) well using a drill mixer with a spiral head attachment. Add the entire contents of the TERRACO Epirok CPC Component 'B' (activator) into TERRACO Epirok CPC Component 'A'. Mix well until uniform in colour. Decant into a clean container. Mix again and then decant onto the floor in thin narrow lines. Spread the coating with a short nap roller ensuring complete coating of silica aggregate. Refer to consumption rates for the 2<sup>nd</sup> coat application for the system specified. The area must be demarcated to ensure that the correct wet film thickness is obtained and maintained. Care must be taken to ensure no pooling of the product or flooding of the surface whilst applying this final coat. Apply TERRACO Epirok CPC at temperatures between 15°C and 35°C only.

Do not apply TERRACO Epirok CPC on substrates with more than 5% moisture content.

Do not apply TERRACO Epirok CPC outdoors or in areas exposed to UV (Refer to our Technical Department).

Do not part mix products (split kits).

TERRACO Epirok CPC is for non-slip finishes only. It is not suitable for smooth or gloss finishes.

### **APPLICATION CONDITIONS**

Do not apply TERRACO Epirok CPC on substrate temperatures above 35°C.

### **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**

TERRACO Epirok CPC Component A is packed in a 5 litre metal tin. Contents: 4,640 kg

TERRACO Epirok CPC Component B is packed in a 1 litre plastic cup. Contents: 0.960 kg

TERRACO Aggregates are packed in 25kg bags.

Terraco Epirok CPC Component "A" and "B" when mixed yield 4 litres.

TERRACO Epirok CPC components must be stored overnight in an air-conditioned environment of 25°C prior to the application. Product should be stored in a clean, dry area, protected from direct sunlight and between 15°C and 25°C. Unopened containers can be stored for 12 months. Use oldest material first.

MATERIAL CONSUMPTION	Epirok EP1	1 <sup>st</sup> Coat Epirok CPC	Aggregate No.4	Aggregate No.5	Aggregate No.1	2 <sup>nd</sup> Coat Epirok CPC
Epirok CPC (fine non-slip)	200 ml /m <sup>2</sup>	75 ml / m <sup>2</sup>	0.6 kg / m <sup>2</sup>			175 ml / m <sup>2</sup>
Epirok CPC (medium non-slip)	200 ml /m <sup>2</sup>	80 ml / m <sup>2</sup>		0.8 kg / m <sup>2</sup>		230 ml / m <sup>2</sup>
Epirok CPC (standard non-slip)	200 ml /m <sup>2</sup>	125 ml / m <sup>2</sup>			1.0 kg / m <sup>2</sup>	372 ml / m <sup>2</sup>

### **Summary : Consumption / m<sup>2</sup>**

**Fine :** Epirok CPC (4litre kit) 16m<sup>2</sup> @ 250ml / m<sup>2</sup>

**Medium :** Epirok CPC (4litre kit) 12,9m<sup>2</sup> @ 310ml / m<sup>2</sup>

**Standard :** Epirok CPC (4litre kit) 8m<sup>2</sup> @ 500ml / m<sup>2</sup>

**NB :** Consumption rates may vary depending on substrate conditions and application techniques.

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 non-slip epoxy coating.	
<b>Drying Time</b>	Surface dry: 8 hours. Full Cure: 7 days	
<b>Pot Life @ 30°C</b>	50 minutes	ASTM D 2471
<b>Abrasion Resistance</b>	76.7 mg weight loss per 1000g sample.	ASTM D 4060 :01
<b>Adhesion to Concrete</b>	2.7N/mm <sup>2</sup> .	BS 1881 Part 207
<b>Chemical Resistance</b>	Oil (lubricating oil). No change : (after 48 hours)	ASTM D 543
<b>Density</b>	1.4331kg / litre	ASTM D 1475 - 90
<b>Flexural Strength</b>	42.3N/mm <sup>2</sup> (7 days).	ASTM C 580
<b>Tensile Strength</b>	22.1 N/mm <sup>2</sup> (7 days).	ASTM C 307
<b>Finish</b>	Fine, Medium and Standard non-slip. <b>(NB: Not for smooth or gloss finishes.)</b>	
<b>Colours</b>	16 Standard Colours.	
<b>Material Consumption</b>	Refer to material consumption rates.	
<b>Application Method</b>	Roller	
<b>Packaging</b>	<b>TERRACO EPIROK CPC Component A</b> – 5 litre metal tin. Contents: 4,640kg <b>TERRACO EPIROK CPC Component B</b> – 1 litre plastic cup. Contents: 0,960kg <b>Mixed yield of Component A and B :</b> 4 Litres. <b>Terraco Aggregates packaging:</b> 25kg paper bags.	
<b>Storage</b>	12 months in original unopened containers, when stored between 15 - 25°C.	

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