

### OVERVIEW

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

### PROPERTIES

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

- Available in gloss or non-slip finish.
- Solvent free.
- Easy to clean.
- Durable coating, low maintenance costs.
- Hard wearing.
- Abrasion and chemical resistant.

### AREAS OF USE

TERRACO Epirok HBC provides a hard wearing, abrasion and chemical resistant floor coating. It is ideally suited for use on concrete floors, in areas such as light duty workshops, warehouses, car parks, showrooms and aircraft hangers.

### PREPARATION OF SURFACE

#### **New Concrete Floors:**

Ensure that all surfaces where TERRACO Epirok HBC is to be applied are level. 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.

### 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.

### SPECIFICATION

#### **Gloss Finish Application:**

The coating must be applied between 24 and 36 hours after priming. Mix TERRACO Epirok HBC Component 'A' (resin) well using a drill mixer. Add the entire contents of the TERRACO Epirok HBC Component 'B' (activator) to the TERRACO Epirok HBC 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 DFT (dry film thickness) specified.

Apply the coating with a good quality short nap roller for applications less than 500microns. Two coats will be required for applications above 200 microns. For applications above 500 microns up to 1mm the coating must be applied using a gauging trowel to achieve the dry film thickness specified then spike rolled to level and to expel any entrapped air in the coating.

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

The first coat must be applied between 24 and 36 hours after priming. Immediately after the 1<sup>st</sup> topcoat has been applied, broadcast (scatter) the selected TERRACO Aggregate lightly at first then fully cover any exposed coated area.

The 1<sup>st</sup> topcoat must be completely covered by the silica aggregate particles to represent sample submitted.

Varying profiles of non-slip can be achieved by broadcasting less aggregate into the 1<sup>st</sup> topcoat.

### SPECIFICATION (continued)

Less aggregate broadcasted into the 1<sup>st</sup> topcoat will consume less product in the 2<sup>nd</sup> coat application but will result in a lower film build and reduced slip resistance.

Allow to cure overnight.

Use a hard broom and vacuum clean to remove all loose aggregate particles. Use a steel float and scrape off any high profiles on the broadcasted surface. Sweep or vacuum 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 HBC Component 'A' (resin) well using a drill mixer with a spiral head attachment. Add the entire contents of the TERRACO Epirok HBC Component 'B' (activator) into TERRACO Epirok HBC 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 medium pile roller ensuring complete coating of silica aggregate.

Refer to the consumption rates for the 2<sup>nd</sup> coat application for the system specified.

The area must be demarcated to ensure 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.

Uneven application will result in gloss patches in the cured coating system.

### APPLICATION & CLEANING OF TOOLS

Apply TERRACO Epirok HBC at temperatures between 15°C and 35°C only.

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

Do not apply TERRACO Epirok HBC outdoors (Refer to our Technical Department).

Do not part mix products (split kits).

All substrates must be smooth after primer and repair process prior to the gloss or non-slip system application.

### 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 HBC Component A is packed in a 5 litre metal tin. Contents : 3.5 kg

TERRACO Epirok HBC Component B is packed in a 2 litre plastic cup. Contents : 1.44 kg

Mixed yield of TERRACO Epirok HBC Component A and B : 4litres.

TERRACO Aggregates is packed in 25 kg bags.

TERRACO Epirok HBC components must be stored in an air-conditioned environment prior to 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 HBC	Aggregate No.4	Aggregate No.5	Aggregate No.1	2 <sup>nd</sup> Coat Epirok HBC
Epirok HBC (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 HBC (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 HBC (standard non-slip)	200 ml / m <sup>2</sup>	125 ml / m <sup>2</sup>			1.0 kg / m <sup>2</sup>	375 ml / m <sup>2</sup>

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

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

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

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

**NB :** Consumption rates may vary depending on substrate condition, preparation and application techniques.

**TECHNICAL DATA**

<b>Product</b>	Solvent free high build epoxy coating.		
<b>Drying Time</b>	Surface dry: 18 hours. Full Cure: 7 days.		
<b>Pot Life @ 30°C</b>	60 Minutes.		ASTM D 2471
<b>Abrasion Resistance</b>	121 mg weight loss per 1000g sample.		ASTM D 4060 :01
<b>Adhesion to Concrete</b>	2.19 N/mm <sup>2</sup> . Note: Failure occurred within the concrete substrate.		BS 1881 Part 207
<b>Chemical Resistance</b>	pH 2.5 with H <sub>2</sub> SO <sub>4</sub> . : No change (after 48 hours) pH 11.0 with Na OH. : No change (after 48 hours) NaCl 3%. : No change (after 48 hours) Solvent acetone. : No change (after 48 hours) Oil (lubricating oil). : No change (after 48 hours) Note: Blistering, loss of gloss, discoloration, swelling etc. were not observed.		ASTM D 543 ASTM D 543 ASTM D 543 ASTM D 543 ASTM D 543
<b>Density</b>	1.2342 g/ml.		ASTM D 1475 - 90
<b>Flexural Strength</b>	14.5 N/mm <sup>2</sup> (7 days).		ASTM C 580
<b>Tensile Strength</b>	11.2 N/mm <sup>2</sup> (7 days).		ASTM C 307
<b>Sheen</b>	Gloss or non-slip finish.		
<b>Colours</b>	16 Standard Colours.		
<b>Material Consumption</b>	Refer to material consumption rates.		
<b>Application Method</b>	Roller/ Gauging trowel and spike roller.		
<b>Packaging</b>	<b>TERRACO Epirok HBC Component A</b> – 5 litre metal tin. Contents : 3.5 kg <b>TERRACO Epirok HBC Component B</b> – 2 litre plastic cup. Contents : 1.44kg Mixed yield of components A and B : 4 litres TERRACO Aggregates – 25kg bag.		
<b>Storage</b>	12 months in original unopened containers, when stored between 15 - 25°C.		

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.

For technical enquiries please contact your nearest Terraco representative:

**CHINA:**

**Terraco Architectural Coatings China Co., Ltd.**  
Tel: +86 (0)20 8759 4742  
Fax: +86 (0)20 8526 8056  
E-mail: sales@terraco.com.cn  
Web: www.terraco.com.cn

**Terraco Chemical (Shanghai) Co., Ltd.**

Tel: +86 (0)21 621020 48 / 18  
Fax: +86 (0)21 625205 47  
Email: sales@terraco.com.cn  
Web: www.terraco.com.cn

**EGYPT:****Terraco Egypt Chemical Industries S.A.E.**

Tel: +20 (0)22 29184 53 / 57 / 58  
Fax: +20 (0)22 29184 80  
E-mail: terraco@terraco.com.eg  
Web: www.terraco.com.eg

**JORDAN:****Jordan Swedish Polymers Industrial Corp.**

Tel: +962 (0)6 553 8751  
Fax: +962 (0)6 553 6560  
E-mail: terraco@nol.com.jo  
Web: www.terraco.jo

**IRELAND:****Terraco Technical Centre, Ireland**

Tel: +353 (0) 404 66555  
Fax: +353 (0) 404 66654  
E-mail: technical-centre@terraco.com  
Web: www.terraco.com

**PAKISTAN:**

**Terraco Pakistan Pvt. Ltd.**  
Tel: +92 (0)42 3529 70 56-8  
Fax: +92 (0)42 3529 70 55  
Email: terraco@terraco.pk  
Web: www.terraco.com

**ROMANIA:**

**Terraco Romania SRL**  
Tel: +40 (0)749 203 133  
Fax: +40 (0)318 148 810  
E-mail: ahaque@terraco.com  
Web: www.terraco.com

**RUSSIA:****OOO Terraco Sweden Ltd, Russia**

Tel: +7 (0)495 9212 237  
Fax: +7 (0)495 6273 881  
E-mail: adm@terraco.ru  
Web: www.terraco.ru

**OOO Terraco Vostok Ltd**

Tel: +7 (0)4212 410563  
Fax: +7 (0)4212 410591  
E-mail: terracovostok@terrakokhv.ru  
Web: www.terraco.com

**SOUTH KOREA:****Terraco Korea Co., Ltd**

Tel: +82 (0) 2 5611 551  
Fax: +82 (0)2 5671 771  
E-mail: terraco@terraco.co.kr  
Web: www.terraco.co.kr

**THAILAND:****Terraco Industry (Thailand) Limited**

Tel: +66 (0)2 946 68 56 / 58  
Fax: +66 (0)2 946 68 59  
E-mail: terraco@terraco.co.th  
Web: www.terraco.com

**TURKEY:****Terraco Yapi Malzemeleri Sanayi Ve Ticaret AS**

Tel: +90 (0)222 236 0423  
Fax: +90 (0)222 236 0425  
E-mail: terraco@terraco.com.tr  
Web: www.terraco.com.tr

**UAE:****Terraco UAE Ltd**

Tel: +971 (0)4 326 2699  
Fax: +971 (0)4 326 2733  
E-mail: terraco@terraco.ae  
Web: www.terraco.com

**UK:****ADDAGRIP**

Tel: +44 (0)1825 761 333  
Fax: +44 (0)1825 768 566  
E-mail: sales@addagrip.co.uk  
Web: www.addagrip.co.uk / www.terraco.com

**VIETNAM:****Terraco Vietnam Co., Ltd**

Tel: +84 (0)650 3 820 100  
Fax: +84 (0)650 3 820101  
E-mail: terraco@terraco.com.vn  
Web: www.terraco.com