

OVERVIEW

Epirok SLS is a solvent free, self-leveling, three component, 2 – 3mm epoxy screed with excellent abrasion and chemical resistance, ideally suited for areas where hygiene and ease of cleaning is of importance.

PROPERTIES

Epirok SLS has the following properties:

- Solvent free.
- Easy application.
- Excellent abrasion resistance – durable.
- Excellent chemical resistance.
- High gloss, smooth finish – easy to clean.
- Hygienic.

AREAS OF USE

- Cold food processing facilities.
- Showrooms.
- Tertiary departments e.g. assembly halls.
- Warehouses (including automated).
- Aircraft hangers.
- Light industrial plants.

PREPARATION OF SURFACE

New Concrete Floors:

All surfaces where Epirok SLS is to be applied must be flat. 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 or old coating must be removed mechanically (diamond grinding or grit blasting). The prepared surface must then be thoroughly vacuumed to remove all traces of dust or grit particles.

Old Concrete Floors:

A sound, clean substrate is essential to achieve maximum adhesion. 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 2-K (refer to TERRACO Epirok RC 2-K data sheet). The repaired substrate must be ground or sanded to the same level as the adjacent floor. If TERRACO Epirok RC 2-K is utilized for repair works, no additional priming is required after sanding or grinding the repaired surface (NB: The surface must be dust free).

PRIMING

The surface must be primed with TERRACO Epirok EP1 (two component solvent-free epoxy primer). Both components of TERRACO Epirok EP1 must be stored at 20 - 25°C for a period of 12 hours prior to mixing / application.

Decant the entire contents of the TERRACO Epirok EP1 Component 'B' (activator) into the TERRACO 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 mixed material onto the substrate in narrow lines and apply 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.

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

The Epirok EP1 should cover 6-9 m²/ltr area depending on substrate porosity.

MIXING

Mix the Epirok SLS Component 'A' (resin) well using a drill mixer with a spiral head attachment.

Whilst mixing, decant the Epirok SLS Component 'B' (activator) into the Epirok SLS Component 'A' (resin) container and mix for 1 minute.

Transfer the mixed material into a portable pan mixer (or any suitable paddle type mixer).

Whilst mixing, slowly add the Epirok SLS Component 'C' (filler) into the Epirok SLS Component A / B mixture.

Continue mixing until the mixture is free of lumps.

The mixing time should not exceed 3 minutes.

Ensure to have a spatula or scraper at hand to scrape the sides of the pan mixer pot and paddle.

When the material is free of lumps it should be decanted onto the primed surface.

APPLICATION & CLEANING OF TOOLS

The mixed Epirok SLS can now be spread to the desired thickness using a gauging trowel.

Immediately after the material is spread, the material should be rolled with a spiked roller to remove entrapped air and to level the product.

The spike rolling must be thorough and should overlap the previous rolling operation.

This rolling can continue whilst the product is still leveling out.

Where mixes overlap (joints), ensure that the previous mix and the placed mix are fused together to form a continuous screed of colour and thickness. Always have enough spike rolling operators on the floor as mixing and spreading will be faster than the rolling.

Operators must wear spike shoes with rounded spikes to prevent any puncture or break in the primer coat.

Precautions:

Ensure adequate mixing of the product prior to decanting onto the floor.

Never reduce the filler quantities to improve flow.

Epirok SLS Component 'A' must be mixed well prior to adding Epirok SLS

Component 'B'.

Mixing time per kit of Epirok SLS must be consistent throughout the application.

Never split or mix part kits (ratios are critical).

Do not apply on substrates with a substrate temperature above 35°C.

Do not apply in direct sunlight (refer to TERRACO Technical Department).

Do not apply in thicknesses in excess of 3mm.

HEALTH & SAFETY

Always wear protective clothing e.g. rubber gloves, particle dust masks, safety goggles, acid resistant clothing and safety shoes when working with hazardous chemicals.

Dispose of empty containers according to local municipality regulations.

Refer to relevant Material Safety Data Sheet for further information.

PACKAGING & STORAGE

Epirok SLS is packed in a three component kit, comprising of the following:

Epirok SLS Component 'A' (resin) packed in a 5 litre metal pail with lid. Contents : 3.820 kg

Epirok SLS Component 'B' (activator) packed in a 2 litre metal can with lid. Contents : 1.915 kg

Epirok SLS Component 'C' (filler) packed in valve bag. Contents : 8.250 kg

Stored material should not be exposed to direct sunlight.

Store all the Epirok SLS components at 20 - 25°C overnight prior to use.

TECHNICAL DATA

Product	Solvent free, self-leveling epoxy screed.	
Drying Time	Surface dry: 24 hours. Full cure: 7 days.	
Pot Life @ 30°C	30 – 45 minutes	ASTM D 2471
Colours	10 standard colours.	
Density	1.83 ± 0.05 g/cc.	ASTM D 1475-90
Flexural Strength	28.1 N/mm ² .	ASTM C 580:96
Tensile Strength	18.2 N/mm ² .	ASTM C 307:94
Compressive Strength	48.9 N/mm ² .	ASTM C 579
Adhesion to Concrete	3.3 N/mm ² . Note: Failure occurred within the substrate.	BS 1881 Part 207
Chemical Resistance	pH 2.5 with H ₂ SO ₄ : pH 11.0 with Na OH: 3% Acetic Acid: Solvent acetone: Hydraulic Oil: Soap solution:	Slight colour change & gloss loss (after 48 hours). No changes were observed (after 48 hours). Slight colour change & gloss loss (after 48 hours). No changes were observed (after 48 hours). White spots observed on the poured area (after 48 hours). No changes were observed (after 48 hours). ASTM D 543.
Abrasion Resistance	144 mg weight loss after 1 000 cycles using CS-17 abrasive wheels.	ASTM D 4060:01.
Material Consumption	3.75 litres / m ² @ 2mm thickness.	
Application Method	Gauging trowel and then spike rolling.	
Packaging	Epirok SLS Component A – 5 litre metal pail with lid. Contents : 3.820 kg Epirok SLS Component B – 2 litre metal can with lid. Contents : 1.915 kg Epirok SLS Component C – Valve bag. Contents : 8.250kg 1 Kit of Epirok SLS will yield 7.5 litres.	
Storage	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.

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