

HYCHEM SL50

Impact resistant self-levelling epoxy topping

Product Description

HYCHEM SL50 is a 100% solids, flexible self-levelling epoxy flooring system. It is impervious and designed to provide a smooth seamless floor. It is recommended for use as a heavy duty floor topping (2 - 4 mm) system for protection of concrete and steel floors. It is particularly useful where some movement or flexing of the substrate is expected or where a softer feel is desired.

Features & Benefits

- Chemical resistant – resists dilute acids, alkalis and commercial cleaning agents.
- Abrasion / impact resistant – hard wearing and durable.
- Highly flowable – will self-level to a flat finish.
- Smooth/Glossy finish – easy to clean and maintain.
- Excellent adhesion to concrete and most other coating or topping systems.
- Low / no odour – does not taint food.
- Non-flammable – no fire hazard.

Technical Data

Properties measured at	25°C, 50% RH
Solids content	100 %

Physical Properties

Elongation	10 %
Hardness	65 Shore D
Impact Resistance	High
Recommended thickness	2 to 4 mm

APPLICATION GUIDELINES

Surface preparation

- Concrete substrate shall be firm, clean and dry with a compressive strength of 25 MPa and surface tensile strength of 1.5 MPa minimum.
- New concrete must be allowed to cure for a minimum of 28 days.
- Repair imperfections (holes and cracks) with an epoxy patching compound such as Hychem GP where necessary.
- Remove surface laitance, contaminants, coating, curing compound and all weak and loose materials.
- Prepare concrete surface by Diamond Grinding, Scarifying or Captive Shot Blasting to provide the appropriate surface profile for optimum mechanical keying.

Priming

- The prepared surface must be primed with Hychem GP at a rate of 4 to 6 sqm/litre to ensure that no air holes remain. Highly porous surface should be doubled primed.
- Allow Hychem GP to cure for 12 to 16 hours but not more than 24 hours otherwise re-priming will be required.

Mixing

- Mix Hychem SL50 liquid components (Resin & Hardener) together using a helical mixer at a speed of 500 rpm until the mix becomes homogeneous (2 to 3 minutes should be sufficient)
- Product must be mixed slowly to avoid aerating.

Applying

- Pour the wet mix on the floor. Spread over the floor area using a pin rake or notched trowel set at a pre-determined thickness.
- Ensure to maintain continuity of wet material between pours.

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- Roll the surface with a spike roller to remove entrapped air.
- Allow to cure for 24 hours before exposing to foot traffic.

Field Support

Field support where provided, does not constitute supervisory responsibility. Suggestions made by HYCHEM either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not HYCHEM are responsible for carrying out procedures appropriate to a specific application.

Customer Responsibility

The technical information and application advice given in this publication is based on the best information available at the time of print. As the information herein is of a general nature, no assumption can be made as to the product suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

Application Information

Pot life	25 mins
Mix ratio by volume (Resin: Hardener)	1 : 1
Tack free time	16 hrs
Cure time	24 hrs – foot traffic

Coverage

8 litre kit will cover 4 sqm @ 2mm thick.

Clean Up

Xylene can be used for cleaning tools and equipment before the mixed compound begins to harden.

Packaging

Kit size	Component A (Resin)	Component B (Hardener)
8 Litre	4 Litre	4 Litre

Environmental Conditions

Temperature and the surrounding atmospheric conditions will play a part in the curing process of all resin products. Under conditions of low temperatures and high humidity the final cured surface finish can be adversely affected, potentially resulting in poor gloss retention, discoloration over time, poor overcoat ability and inter-coat adhesion. Quite often these conditions will result in the formation of a white film over the surface, often evident after contact with water. If this occurs, the existing coating will need to be abraded to completely remove the affected surface to ensure the adhesion of subsequent applications. In some cases, partial or complete re-priming may be necessary. Attention also needs to be paid to the substrate temperature, which should be at least 3-5 °C above the dew point during the curing phase. Industry standards recommend the accurate recording of environmental conditions such as substrate and air temperatures, humidity levels and dew point readings during both the application and curing processes. Full material warranties cannot be provided unless all the relevant data has been recorded accurately. If in doubt consult the HYCHEM technical department for advice.

Safety Precautions

Wear appropriate personal protection equipment. Gloves, eye protection, mask and overalls should be used during mixing and application. Ensure there is adequate ventilation and avoid breathing the vapour. Refer to the Safety Data Sheet for this product before use.

Shelf Life

12 months from date of manufacture, stored under shelter at 25°C in original un-opened container.

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Chemical Resistance

ACIDS		ALKALIS	
acetic	5%	ammonium hydroxide	20%
citric	5%	potassium hydroxide	20%
hydrochloric	10%	sodium hydroxide	20%
nitric	10%		
phosphoric	10%		
sulphuric	20%		

Warranties and Disclaimers

HYCHEM warrants that this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product is dependent upon the proper use and application of the product by the applicator. HYCHEM has no role in the application of the finished polymer other than to manufacture and supply its components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of the application tools, including trowelling, spray equipment etc. There are no warranties that extend beyond the description on the face of this instrument, except when provided in writing, directly by HYCHEM.

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Legal Notes

The information, and in particular the recommendations relating to the application and end-use of HYCHEM products, are given in good faith based on HYCHEM's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with HYCHEM's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. HYCHEM reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.