



**HYCHEM**  
EPOXY SYSTEMS

# HYCHEM SL50

Impact resistant self-levelling epoxy topping

HYCHEM SL50 is a 100% solids, flexible self-levelling epoxy flooring system. It is impervious and designed to provide a smooth seamless floor.

## USE

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 AND 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.

## PHYSICAL PROPERTIES (@ 25°C, 50% RH)

Solids content	100 %
Pot life	25 mins
Mix ratio by volume (Resin: Hardener)	1 : 1
Tack free time	16 hrs
Cure time	24 hrs - foot traffic
Elongation	10%
Hardness	65 Shore D
Impact Resistance	High
Recommended thickness	2 to 4 mm

## CHEMICAL RESISTANCE @ 25°C

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

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

## CLEAN UP

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

## COVERAGE

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

## SAFETY PRECAUTIONS

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- Wear gloves, eye protection and overalls during mixing and application.
- Ensure there is adequate ventilation and avoid breathing the vapour.

## PACKAGING

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

## SHELF LIFE

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

## DISCLAIMER

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### 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.*



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