

SL20 DATA SHEET

PREMIUM, HIGH GLOSSSELF-LEVELLING EPOXY TOPPING

DESCRIPTION

HYCHEM SL20 is a 100% solids, self-levelling epoxy flooring system. It is impervious and designed to provide an easy clean, hygienic, super smooth seamless floor. SL20 has high mechanical strength and excellent chemical resistance.

USE

It is recommended for use as a heavy duty floor topping (2 - 4 mm) system for the protection of concrete floor surfaces subject to heavy loads, possible chemical attack and where the installation of a clean, hard, smooth floor finish is important.

TYPICAL APPLICATIONS

- › Pharmaceutical manufacturing plants
- › Electronic assembly plants
- › Hospitals
- › Warehouse / Logistics centres
- › TV studios
- › Laboratories
- › Retail showrooms

FEATURES & BENEFITS

- › Chemical resistant – resists dilute acids and alkalis, aliphatic solvents and commercial cleaning agents.
- › Oil resistant – withstands vegetable oils and animal fats, hydraulic fluid, grease, petrol & lubricants

- › Abrasion and impact resistant – hard wearing and durable.
- › High strength – 95 MPa compressive strength.
- › Highly flowable – will self-level to a super flat finish.
- › Smooth/High Gloss finish – easy to clean and maintain.
- › Excellent adhesion to concrete and most other coating or topping systems.
- › Low odour – does not taint food.
- › Non-flammable – no fire hazard.
- › Wide colour range-available in many colours (colour matching on request).

PHYSICAL PROPERTIES (@ 25°C, 50 % RH)

- › **Solids Content:**
100%
- › **Pot Life:**
25 mins
- › **Mix Ratio by Volume:**
2 : 1 (Resin: Hardener)
- › **Tack Free Time:**
8 hrs
- › **Cure Time:**
Foot Traffic - 24 hrs; Full Cure - 7 days
- › **Compressive Strength:**
95 MPa
- › **Hardness:**
75 Shore D
- › **Early water resistance:**
24 hrs
- › **Recommended thickness:**
2 to 4 mm

Chemical resistance @ 25°C Highly resistant even in constant exposure situations

Acids		Alkalis		Oils	Miscellaneous	Solvents
Acetic	10%	Ammonium	20%	Crude oil	Antifreeze	Toluene
Citric	5%	Potassium	20%	Mineral oils	Brake fluid	Turpentine
Hydrochloric	20%	Sodium hydroxide	20%	Motor oil	Gasoline	White spirit
Nitric	10%			Vegetable oils	Jet fuel	Xylene
Phosphoric	20%			Fats	Skydrol	
Sulphuric	70%					

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.

- › Where the surface is quite uneven, apply a skim coat of Hychem E300SL slurry for cost effectiveness in rectifying the sub-floor and to achieve the desired quality finish.

Priming

- › The prepared surface must be primed with Hychem GP at a rate of 4 to 6 m² per 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 SL20 liquid components (Resin and Hardener) together using a helical mixer at a speed of 500 rpm until the mix becomes homogeneous (1 to 2 minutes should be sufficient).

- › Product must be mixed slowly to avoid aerating.
- › Add 12 kg of Silica 60G (or equivalent) to the 12 litres of SL20. Mix slowly until a smooth uniform consistency is achieved. Move the mixer around from side to side and top to bottom and scrap the sides of the mixing vessel to ensure thorough mixing.
- › In colder weather it may be beneficial to reduce the amount of aggregate but consult a Hychem representative first.

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.
- › If a non-slip finish is required, apply a coat of Hychem SF20FG. Allow to cure for 12 to 16 hours before exposing to foot traffic.

Clean Up

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

SAFETY PRECAUTIONS

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

PACKAGING

Neutral

<u>Kit size</u>	<u>Colour Packs Required</u>
11.25 Lt	1 x 0.75 Lt

Colour

<u>Kit size</u>	<u>Colour Packs Required</u>
12 Lt	N/A Prepigmented

Silica 60 G is supplied in 25 Kg bag.

COVERAGE

The 12 litre kit when combined with 12 kg Silica 60G will yield approximately 16.5 Litres.

This will give a coverage of 5.5 sqm/ltr at 3mm thick.

SHELF LIFE

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

DISCLAIMER

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.



HYCHEM
INTERNATIONAL PTY LTD

Hychem International Pty. Ltd.
ACN 003 248 959
www.hychem.com.au
admin@hychem.com.au

Head Office
3/19 Burns Rd
Heathcote NSW 2233
02 9548 2186

VIC/TAS
2/35 Garden Rd
Clayton VIC 3168
02 9562 4660

QLD
7/11-17 Cairns St
Loganholme QLD 4129
07 3209 8999

SA/NT
61 Bacon St
Hindmarsh SA 5007
08 8346 4111