HYCHEM
INTERNATIONAL PTY LTD

SF20 DATA SHEET

HEAVY DUTY, 100% SOLIDS EPOXY COATING

DESCRIPTION

Hychem SF20 is a solventless, chemical resistant, two component epoxy coating, which provides a high gloss finish.

USE

It is suitable for use for the protection of concrete surfaces in walkways, workshops and production facilities subject to foot and light vehicular traffic against abrasion and chemicals.

TYPICAL APPLICATIONS

- Dairy food manufacturing
- Food & beverage production
- Motor workshops
- Abattoirs, poultry and smallgoods preparation
- Commercial kitchens & bars
- Assembly plants
- Walkways and safety markings in shopping centres and public facilities

FEATURES & BENEFITS

- Chemical Resistant to petroleum oils, solvents, acids & alkalis.
- Durable – 100% solids provides a 500 micron DFT (two coat application).
- Wear Resistant – hard wearing even in harsh and punishing environment.
- Slip Resistance – meets AS/NZ 4568 R10; will meet R11 to R13 with quartz aggregates.
- Solvent less – non-flammable, very low VOC easily meets Green Star specification.
- Low odour – does not taint food.
- High Gloss Finish – aesthetically pleasing; easy to maintain.
- Wide colour range – available in many colours (colour matching on request).

PHYSICAL PROPERTIES (@ 25°C, 50 % RH)

- **Solids Content:** 100%
- **Pot Life:** 30 mins
- **Mix Ratio by Volume:** 2 : 1 (Resin: Hardener)
- **Tack Free Time:** 8 hrs
- **Cure Time:** Foot Traffic - 24 hrs; Cure Time - 7 days
- **Re-coat Time:** 12 hrs
- **Film Thickness Per Coat:** 150 – 250 microns
- **Slip Resistance (ANZ4586:2004):** R10 – R13 dependent on anti-slip
- **Colour stability:** Good UV resistance

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%	Sodium	16%	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, coatings, curing compounds and all weak and loose materials.
- Prepare concrete surface by Diamond Grinding or light Shot Blasting to provide the appropriate surface profile for optimum mechanical keying.

Priming

- Priming is generally not required.
- Where necessary, apply Hychem GP by roller at a rate of 6 to 8 m^2 per litre.

Mixing

Mix only enough quantity that can be applied within the work life which is temperature dependent.

- For Hychem SF20 Neutral, add colour pigment into the Component A (Resin) and mix until homogeneous (1 minute) using a helical mixer at a speed of 500 rpm.
- Mix Hychem SF20 liquid components (Resin & Hardener) together using a helical mixer at a speed of 500 rpm until the mix becomes homogeneous (1.5 to 2 minutes).
- Move the mixer around from side to side and top to bottom and scrap the sides of the mixing vessel to ensure thorough mixing.

Applying

Smooth Finish

- Apply Hychem GP Primer (where necessary) using a short nap roller at a coverage rate of 6 to 8 m² per litre depending on the coarseness of the sub-floor surface. Allow to cure for a minimum of 12 hours or over-night but less than 24 hours.
- Apply first coat of Hychem SF20 using a short nap roller at a coverage rate of approximately 6 m² per litre. Allow to cure as above. For unprimed surfaces the first coat can be diluted with xylene for increased penetration into substrate.
- Apply second coat of Hychem SF20 at a coverage rate of approximately 6 to 8 m² sqm per litre. Allow to cure as above.

Non-Slip Finish

- Apply as above. Broadcast grit aggregate (size to suit anti-slip requirement) into the first coat while it is still wet and allow to cure overnight.
- Sweep off loose aggregate.
- Apply second coat of Hychem SF20 to seal the surface.
- Slip Resistance is dependent on the size (grading) of aggregates used:

  80 mesh Alumina ------ R 11

  36 mesh Alumina ------ R 12

  24 mesh Alumina ------ R 13

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

Kit size	Colour Packs Required
8.25 Lt	1 x 0.75 Lt

Colour

Kit size	Colour Packs Required
9 Lt	N/A

COVERAGE

When using Hychem GP Primer, the first coat will achieve a coverage rate of 5 to 7 m² per litre.

The second coat will achieve 8 m² per litre.

Over self-levelling topping, the coverage rate will be 8 m² per litre, and 4 m² per litre over trowelled on topping.

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.

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