



**HYCHEM**  
EPOXY SYSTEMS

# HYCHEM SF20FG

Heavy duty, anti-slip epoxy coating

Hychem SF20FG is a high solids, chemical resistant, epoxy coating with built-in fine grit anti-slip additive that provides a fine non-slip surface which remains easy to clean.

## USE

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

## FEATURES AND BENEFITS

- Chemical resistant to petroleum oils, solvents, acids and alkalis, and hot fats
- Durable - high solids (85%) provides a 300 micron DFT (two coat application)
- Slip resistant - a fine non slip providing a medium between slip resistance and cleanability
- Wear resistant - hard wearing even in harsh and punishing environment
- Colour stability - good UV stability
- Low gloss finish - aesthetically pleasing, easy to maintain
- Wide colour range - available in many colours (colour matching on request)

## TYPICAL APPLICATIONS

- Dairy food manufacturing
- Food and beverage production
- Margarine and oil products processing
- Abattoirs, poultry and smallgoods preparation
- Commercial kitchens and bars
- Assembly plants
- Walkways and safety markings in shopping centres and public facilities

## PHYSICAL PROPERTIES @ 25°C, 50 % RHRH

Solids content	85%
Pot life	30 mins
Mix ratio by volume (Resin:Hardener)	1:1
Tack free time	8 hours
Re-coat time	18-24 hours
Cure time	24 hours - foot traffic 7 days - full cure
Re-coat time	12 hours
Film thickness per coat	125-150 microns
Slip resistance ANZ4586:2004	R10
Colour stability	Excellent indoors

## CHEMICAL RESISTANCE @ 25°C HIGHLY RESISTANT EVEN IN CONSTANT EXPOSURE SITUATIONS

ACIDS	ALKALIS	OILS	MISCELLANEOUS	SOLVENTS		
Acetic	15%	Ammonium	20%	Crude oil	Antifreeze	Toluene
Citric	5%	Potassium	20%	Mineral oils	Brake fluid	Turpentine
Hydrochloric	20%	Sodium hydroxide	20%	Motor oil	Gasoline	White
Nitric	10%	Sodium	16%	Vegetable oils	Jet fuel	Xylene
Phosphoric	20%			Fats	Skydrol	
Sulphuric	20%					

## APPLICATION GUIDELINES

### Cost effective system

Hychem SF20FG can be applied as a two coat application for cost effectiveness.

### Optimum performance system

Hychem SF20FG Flooring System consisting of first coat of Hychem E100 Primer, followed by two coats of Hychem SF20FG and top coated with one seal coat of Hychem Epoxy Glaze 3 or Hychem PA500 Clear is recommended for ultimate aesthetic quality and long term serviceability.

### 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.

### Pre-conditioning product

It is important to note that even when the application environment is warm, products which have been stored in cold or cooler conditions should always be pre-conditioned ideally to 20-25°C to ease mixing, application and help avoid other potential issues such as amine bloom or blushing.

Applying a cold product in a warm environment is not recommended.

### Priming

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

### MIXING

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

- For Hychem SF20FG 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 SF20FG 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 scrape the sides of the mixing vessel to ensure thorough mixing.

## APPLICATION

- Apply **Hychem GP Primer** using a medium nap roller at a coverage rate of 6-8m<sup>2</sup> 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 SF20FG** using a medium nap roller at a coverage rate of 6-8m<sup>2</sup>. Allow to cure as above.
- Apply second coat of **Hychem SF20FG** at a coverage rate of approximately 8m<sup>2</sup> per litre. Allow to cure as above.
- Apply **Hychem Epoxy Glaze 3** as the final seal coat at a coverage rate of approximately 8-10m<sup>2</sup> per litre.

### CLEAN UP

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

### COVERAGE

First coat	Approximately 6 m <sup>2</sup> /litre
Second coat	Approximately 8 m <sup>2</sup> /litre

### SAFETY PRECAUTIONS

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

### PACKAGING

COLOUR	KIT SIZE	NO. OF COLOUR PACK REQUIRED
Neutral	5.5 Litre	1 x 500ml
Neutral	22 Litre	2 X 1 Litre
Colour	6 Litre	N/A
Colour	24 Litre	N/A

### SHELF LIFE

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



## WARNING - ENVIRONMENTAL CONDITIONS

Temperature and the surrounding atmospheric conditions will play a part in the curing process of all epoxy products. Under conditions of low temperatures and high humidity the final cured surface finish can be adversely affected potentially resulting in poor gloss retention, discolouration over time, poor overcoatability and intercoat adhesion. Quite often these conditions will result in the formation of a white film over the surface often evident after contact with water. This chemical reaction with the atmosphere is commonly referred to as "amine bloom" or "amine blush".

If this occurs then 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°C and preferably 5°C above the dew point during the curing phase.

Industry standards recommend the accurate recording of times and dates, batch numbers, consumption rates and environmental conditions including 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.

### **NOTE: Customer responsibility**

*The technical information and application advice given here 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 products 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.*

*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.*

*If unsure contact Hychem for further technical advice before proceeding.*



**HYCHEM**  
EPOXY SYSTEMS

**Head Office**  
Unit 1, 30 Bluett Drive, Smeaton Grange NSW 2567  
T 02 4646 1660 F 02 4647 3700 E [admin@hychem.com.au](mailto:admin@hychem.com.au) W [www.hychem.com.au](http://www.hychem.com.au)

ISSUE NUMBER 190416