

# 100W DATA SHEET

## CLEAR, POLYURETHANE MODIFIED, WATER-BASED EPOXY COATING

### DESCRIPTION

HYCHEM 100W is a clear sealer for concrete and asphaltic surfaces with very high solvent and wear resistance.

The product offers vastly improved performance over commonly used solvent based acrylic sealers. As this product is water based, it is able to be used where solvent based sealers cannot be used due to flammability and odour concerns.

### USE

HYCHEM 100W is primarily designed for use as an anti-dusting and stain resistant clear sealer for broad area surfaces such as car parks and warehouses. It is preferred over the use of a concrete densifier, where stain resistance is an issue of primary concern.

Hychem 100W is also used as the primer coat for HYCHEM PU-100, and as a clear sealer for self-levelling cementitious toppings in commercial and retail premises. When HYCHEM 100W is used in these areas, a lighter coloured finish than most solvent based and solventless clear resins is obtained.

### TYPICAL APPLICATIONS

- › Multi-level car parks in commercial and residential premises
- › Stock & plant rooms
- › Factory floors & warehouses
- › Back of house areas
- › Workshops
- › Over-coating line marking

### FEATURES & BENEFITS

- › 50% higher solids content than solvent based acrylic sealers.
- › Two part chemically cured film - does not soften or stick to tyres in hot weather.
- › Chemically resistant, unaffected by hydraulic fluid, grease, petrol and lubricants.
- › Scrub resistant, can be cleaned with automatic mobile scrubbing machines.
- › Low VOC Emission – complies with Green Star requirements.
- › High film build, lasts up to 5 times longer than lower performance sealers.
- › Reduces cleaning and lighting costs.
- › Easy application by low pressure spray or roller.
- › Saves line marking costs, as lines and safety markings last longer.
- › May be used on asphaltic surfaces as well as concrete.
- › Can be diluted by up to 50% with water.

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

- › **Solids content (by weight):**  
35 %
- › **Pot life:**  
1 hr
- › **Tack free time:**  
24 hrs
- › **Mix ratio by volume (Resin : Hardener):**  
1 : 3
- › **Specific gravity:**  
1.05 kg/ltr
- › **Cure time:**  
Foot Traffic - 24 days  
Full Cure - 7 days
- › **Water Spot Resistance:**  
7 days
- › **Slip resistance (AS4586:2004):**  
Class W/R 10
- › **Abrasion resistance (1 Kg load, H022 wheel):**  
20 mg/sqm/1000 rev

## CHEMICAL & STAIN RESISTANCE

Two part chemically cured resins have much higher resistance than one part materials. HYCHEM 100W has excellent resistance to petroleum based stains, solvents and oils.

The table below is based on film integrity after being exposed to cotton wool soaked pads for 8 hours.

<b>Brake Fluid:</b>	Resistant
<b>Engine Oil:</b>	Resistant
<b>7% Hydrogen Peroxide:</b>	Resistant
<b>Skydrol fluid:</b>	Resistant
<b>Vinegar:</b>	Resistant

## APPLICATION GUIDELINES

### Surface Preparation

#### New concrete

The area needs to be wet scrubbed using a mechanical wet scrubber. Areas not accessible to the mechanical scrubber need to be water blasted with a 2,500 psi water jet. Using this technique a surface area of 5,000 sqm should be able to be prepared per day.

#### Old Concrete

The surface needs to be free of oily contamination so a degreasing solution needs to be applied according to the application instructions of the material.

### Mixing - (based on a 16 litre mix)

Empty contents of Component A (Base Resin) into Component B (Hardener) and mix thoroughly. Add 4 litres of water to the mixed materials and mix thoroughly.

Please Note: All mixed material must be used within 1 hour, discard any material unused after that time, even though it still looks usable.

Use of out of pot life material will result in a film which is not abrasion or chemical resistant.

### Applying

Hychem 100W can be applied by roller, low pressure or airless spray. Two coats of the water diluted material are highly recommended. Two coat application will provide a dry film thickness of approximately 60 microns.

Please Note: When a low pressure, high volume spray is used, the application can be done in one application, provided that the material is applied at a minimum of 5 sqm/litre.

## SAFETY PRECAUTIONS

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

## PACKAGING

<u>Kit size</u>	<u>Colour Packs Required</u>
16 Lt	N/A
80 Lt	N/A
240 Lt	N/A

## COVERAGE

1st Coat:  
6 to 8 m<sup>2</sup> / per litre depending on the porosity and texture of the surface.

2nd Coat:  
12 to 14 m<sup>2</sup> per litre

## SHELF LIFE

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

## DISCLAIMER

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