

HYCHEM WE90

DATA SHEET



HYCHEM
EPOXY SYSTEMS

HYCHEM WE90 is a pigmented, two-component, high solids water-based epoxy coating with very low odour and VOC's (volatile organic compounds). It offers excellent early water resistance, curing at low temperature (5°C) and excellent adhesion to humid green concrete. WE90 is approximately 50% higher solids than conventional water based epoxies with comparable performance to 100% solids and solvent based coatings.

USE

It is recommended for use as a protective coating on concrete surface exposed to foot and vehicular traffic, water, oil, alkaline chemicals and mineral salts. WE90 can also be used as a primer for water based polyurethane, decorative and protective external coating systems.

FEATURES & BENEFITS

- High Solids
- Water based
- Excellent adhesion to damp concrete
- Good curing properties at low temperatures
- High water vapour permeability
- Very good early water resistance
- Very low VOC emission (Green Star VOC content certificate available)
- Very low odour
- Good UV resistance
- Wide colour range

TYPICAL APPLICATIONS

- Schools, hospitals and public buildings
- Retail areas
- Domestic and commercial garages
- Warehouses
- Car parks
- Back of house areas
- Stock & Plant rooms
- Workshops

CHEMICAL RESISTANCE

Acids	Alkalis	Solvents	Oils	Mechanical Fluids
Hydrochloric 10%	Ammonium Hydroxide 20%	Toluene	Crude	Skydrol
Nitric 10%	Sodium Hydroxide 20%	Turpentine	Mineral	Brake Fluid
Sulphuric 10%	Potassium Hydroxide 20%	Xylene	Engine	Petrol
Phosphoric 10%	Bleach	White Spirit	Vegetable	Antifreeze

WE90 is suitable for exposure for exposure to most materials other than contact with mineral and organic acids. For applications requiring such exposure, the use of products such as SF32 is recommended but please contact Hychem for guidance.

APPLICATION GUIDELINES

Substrate Preparation

Prior to the application of SupaFloor, the substrate must be adequately prepared.

- The concrete substrate must be firm, clean and dry with a compressive strength of 25 MPa and a minimum surface tensile strength of 1.5 MPa.
- New concrete must be allowed to cure for a minimum of 28 days.
- Remove all surface laitance, contaminants, existing coatings, curing compounds and any weak or loose materials.
- Prepare the concrete surface by Grinding, to provide the appropriate concrete surface profile (CSP) for optimum mechanical keying.

The extent of surface preparation required is dependant upon but not limited to the thickness of the coating system to be applied. It is highly recommended surface preparation is carried out in accordance with industry standards and publications such as NACE 02203 item No. 22420 or ICRI Technical Guideline No. 03732.

WE90 is generally roller applied. It is recommended to dilute with 2 litres of water for easier application.

MIXING

Do not mix resin, hardener and water at the same time.

- Resin and hardener must be mixed before the addition of any water.
- Mix with a jiffy mixer at a speed of 500 rpm to avoid incorporating excessive air into the mix.
- Mix for 2 minutes, scrape down the sides of the mixing container and mix for another minute to ensure the mix is homogeneous.
- Add water 1 litre at a time and mix until uniform, ensuring all material is incorporated.

APPLYING

Smooth Finish

- Apply by brush, roller or airless spray at a rate of 6 - 8 sqm/litre. Apply 2 coats.

Non-Slip Finish

- If a fine non slip finish is required, it is possible to mix approximately 80# aggregate or finer into WE90 and roll for even distribution.
- If a coarser non slip finish is required then aggregate should be broadcast into the wet applied product and sealed with one or more subsequent coats.

This product should be applied at temperatures above 10°C and below 80% humidity. It contains water which needs to evaporate for complete cure

Approximate application data for 20°C and 65% relative humidity.

Pot life	1 hour
Tack free time	6 hours
Recoat time	8 hours
Hard cure time	24 hours
Full cure	7 days

Apply 2 coats at 6 - 8 m² per litre.
Dry Film Thickness approximately 150um.

MIXING RATIOS

Part A Resin	3.60 kg Neutral	or	2.2 L
Pigment weight varies with colour		or	500 mL
Part B Hardener	4.05 kg	or	3.8 L

PACKAGING

WE90 Neutral 7.65 kg kit

This kit will yield approximately:

8.5 litres with 500 mL pigment pack and 2 litres water

CONSUMPTION RATES

1 Kit of WE90 will cover approximately 60 m²

SHELF LIFE

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

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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