



# EPOXY GLAZE 3

Non-yellowing, 100% solids, solventless, clear epoxy resin

Epoxy Glaze 3 is a specialist, cycloaliphatic resin with excellent non-yellowing characteristics, 100% solids base and zero VOC emissions content. It is designed as a coating for indoor situations exposed to strong sunlight or UV lamps. The product has high resistance to blooming and is also used as a sealer over coatings that show this phenomenon.

## USE

Epoxy Glaze 3 is designed for use as an alternative to solvent based clear aliphatic polyurethanes where the solvent content of the urethanes prevent their use. No flammability or odour hazard, can be built up to a high build finish.

Ideal for ground concrete finishes, decorative self leveling topping, seamless vinyl chip floors and decorative quartz toppings. The product is available in 2 forms, roll on sealer and self leveling topping.

## TYPICAL APPLICATIONS

- Clothing and sporting goods outlets
- Galleries and exhibition centres
- Hairdressers
- Restaurants
- Shower and toilet blocks
- Shopping centres
- Bulk warehouses
- Supermarkets
- Aircraft hangars
- Motor workshops

## CHEMICAL RESISTANCE

The chemical resistance of Epoxy Glaze 3 is lower than that of traditional epoxy products. It is however significantly higher than alternative sealer systems such as solvent based acrylic sealers and water-based sealers. The chart below gives a relative guideline on a scale of 0-1000, with the best performance being 0.

CHEMICAL	Weight Gain
15% Acetic acid	250
20% Caustic soda	15
20% Phosphoric acid	330
Xylene/Butyl Alcohol	200
37% Hydrogen Peroxide	620
Skydrol	5
Mineral Spirits	0
Unleaded Petrol	0

## FEATURES AND BENEFITS

- Clear and non-yellowing - allows aggregate to be exposed, without yellowing over time
- Maintains gloss longer than conventional epoxy sealers
- Low VOC solventless composition
- High build glass-like finish
- Able to be tinted to achieve multi-coloured effects
- Chemically resistant to acids, alkalis, solvents and cleaning chemicals

## PHYSICAL PROPERTIES (AT 25 °C )

Mix Ratio - volume	2:1 Resin : Hardener by volume
Specific gravity	1.09
Pot life	20-30 mins
Tack free time	
Initial Cure time	24 hours
Application temp	10-25°C
Service temperature	Up to 50°C
Full cure	7 days
Re-coat time	24 hours
Slip Resistance	R9-R11 dependent on addition of aggregate
Film thickness	125-1000

## SURFACE PREPARATION

### Natural concrete finish

Grind floor to remove curing agent coatings and imperfections.

### Exposed aggregate

Grind aggregate to a minimum 100 grit finish and prime with Hychem 100W water based sealer.

### Metallic finish

Grind concrete surface to remove any coatings and surface defects. Coat surface with Hychem SF20 to the desired colour to form a sub-base for the subsequent coat of Epoxy Glaze 3.

### PVC flake finish

Grind concrete surface to remove coating and surface defects. Apply a coat of SF20 to the desired colour. Sprinkle PVC flakes in designated colour and density. Allow to cure and sand lightly.

## MIXING

Mix only enough quantity that can be applied within the pot life of the material. Take note that pot life will half or double with each 10 degree drop or increase in temperature. Mix two parts resin with one volume part of hardener by volume using a mechanical mixer at slow speed to avoid air entrapment.

## APPLICATION

Epoxy Glaze 3 RG is applied by short nap mohair roller. Epoxy Glaze SL is applied by steel trowel.

### Coating maintenance

High gloss epoxy coatings are subject to surface scratching by traffic and furniture. To minimize this, it is recommended to apply a sacrificial polish. Such polishes are available from most cleaning chemicals manufacturers. For details contact the HYCHEM technical department.

## CLEAN UP

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

## COVERAGE

Coverage can vary from 6 sq/mtr per litre to 1 sq/mtr per litre dependent on the depth of coating required.

## PACKAGING

Available in 3, 60 litre kits.

## SHELF LIFE

Epoxy Glaze 3 is affected by excessive heat during storage and should be kept in a cool environment. In such an environment, shelf life can be up to 12 months from date of manufacture.

## WARNING - ENVIRONMENTAL CONDITIONS

Epoxy products are sensitive to the prevailing temperature and humidity at the time of application.

- High temperatures will shorten the pot life and application may become difficult due to insufficient time being available to lay the product.
- Low temperatures and high humidity can result in the epoxy reacting with carbon dioxide and surface moisture to produce a white powdery finish. To avoid this, epoxy coatings and toppings must not be applied if surface temperatures are below the dew point while the material has not yet cured.
- The white surface finish is only an aesthetic consideration and does not affect the performance of the material.
- Chemical spillage of acids and sanitizing agents may coating and result in discolouration.
- Differing epoxy products have differing resistance to chemicals, always ensure that the correct product is chosen for the service environment to be encountered.

## SAFETY PRECAUTIONS

Epoxy polymer products may cause allergic reactions through skin contact. Goggles and protective gloves and clothing should be worn at all times. Ensure that there is adequate ventilation and air flow and avoid breathing the vapour.

### 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 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. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.*



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