

Epoxy Glaze 3 DATA SHEET

NON-YELLOWING, 100%
SOLIDS, SOLVENTLESS,
CLEAR EPOXY RESIN

DESCRIPTION

Epoxy Glaze 3 is a specialist resilient resin with excellent non-yellowing characteristics, 100% solids base and zero VOC emissions content. Epoxy Glaze 3 contains no solvent, making it compliant with stringent environmentally-friendly test requirements.

USE

Epoxy Glaze 3 is designed to provide a high build, high gloss finish on exposed aggregate concrete and to produce synthetic marble and metallic effects. It can also be used for coloured quartz decorative toppings. Due to the zero VOC content, Epoxy Glaze 3 provides an environmentally-friendly alternative to solvent based polyurethanes used as a binder and sealer for vinyl chip flake flooring systems. Epoxy Glaze 3 is the ideal alternative to polyurethane-based systems, where yellowing and solvent emissions are of prime concern. The 100% solids composition makes this product a highly economical solution based on dry film thickness of the finished coating.

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

FEATURES & 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 (@ 25°C)

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

CHEMICAL & STAIN 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 0-5000, with the best performance being 0.

Chemical	Weight Gain
15% Acetic acid	15
20% Caustic soda	330
20% Phosphoric Acid	200
37% Hydrogen Peroxide	620
Skydrol	5
Mineral Spirits	0
Unleaded Petrol	0

APPLICATION GUIDELINES

Surface Preparation

- › Natural Concrete Floor - 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

Application of Epoxy Glaze 3 can be by roller or trowel dependent upon the thickness required. It is recommended that two coats be applied at all times. The first coat is applied by roller at an application rate of 4-6 m²/L. The second coat can be a similar roll coat or a thicker topping at up to 1 m²/L. Multi-coloured effects can be achieved by simply adding liquid pigments separately and dispersing them in the clear mix.

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. An alternative to a sacrificial polish is Hychem PU-100, a water-based polyurethane sealer available in both matt and gloss. This reduces the tendency to surface scratching and can be re-applied at any time.

Clean Up

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

PACKAGING

Available in 3L, 9L, 30L & 60L.

COVERAGE

Coverage can vary from 1m²/L to 6m²/L dependent on the depth of coating required.

SHELF LIFE

Epoxy Glaze 3 is subject to damage in 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.

ENVIRONMENTAL CONDITIONS

Warning

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 will result in the epoxy reacting with 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.

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 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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