

PRODUCT DATA SHEET

Eco Poxy Shield

2-Pack High Build Epoxy

DESCRIPTION:

Eco Poxy Shield is a premium 2-component epoxy that is yellowing resistant. **Eco Poxy Shield** is 100% solids (no volatile solvent) and contains ZERO fillers or extenders so it is a pure epoxy resin designed for use on concrete or otherwise rigid substrates.

Eco Poxy Shield has very high adhesion to most surfaces coupled with high gloss and film build with good wear resistance which makes for aesthetically pleasing functional heavy duty coated surfaces.

FEATURES:

- High film build from 100% solids – wet film thickness equals dry film thickness.
- High transparency and film clarity
- Suitable for interior and exterior use (pigmented or filled for exterior)
- Adheres well to a wide variety of surfaces
- Good chemical resistance (see following table)
- Water resistant
- Good durability and wear resistance
- Simple to mix 2:1 ratio of resin to hardener
- Can be coloured with **EcoShield Epoxy colour concentrate**
- Nominal cure approx 24 hours @20 deg C and 65% RH for 200 micron 5 m² per litre) film thickness on glass. For cold temperatures cure time 48 hours at 10 deg C. Full hardness development over 7 days.
- Can be overcoated with **EcoShield Polycarbonate or Polyaspartic** for a higher wear resistant surface.

RECOMMENDED USES

- Decorative flake system base coat (when pigmented) and build coat.

- Art décor floor surface for residential and commercial
- Factory floors
- Retail stores
- Automotive showrooms
- Binder for non-slip particulate surfaces
- Laboratories

DIRECTIONS FOR USE

- Ensure surface to be coated is free from dust, dirt, oils and greases, concrete curing agents, rust and any other contaminant that might adversely influence adhesion to the substrate. Ideally, surface should be rough ground.
- Out gassing from the contained air within the concrete is more likely to occur during the warm-up period of the slab in the earlier part of the day. During out gassing more back rolling may be required to burst the unavoidable air bubbles from out gassing. Application of epoxies during the slab cooling phase in the later afternoon when air is being taken into the slab rather than expelled can give a marked reduction in air bubbles from slab contained air.
- Ensure concrete is at least 28 days old prior to coating.
- If material is to be coloured, add the **EcoShield Epoxy Colour Concentrate** to the resin component A and mechanically mix to uniform colour.
- Add the **Eco Poxy Shield Hardener (part B) to the Eco Poxy Shield Resin (part A)** in the required ratio of 2:1. Machine stir mix to ensure complete mixing, taking care to ensure mixing in container corners and wall areas.
- Pour mixed 2 pack onto the floor.
- Spread or distribute with appropriate application tool.
- Allow to dry and cure in ventilated environment

CLEAN-UP

Discard roller covers after use.

PROPERTIES AND DATA

Ingredients	-	Epoxy resin and hardener 2 pack system
Colour	-	Clear colourless
Odour	-	Barely detectable and non offending
Density	-	1.04 S.G.
Application	-	Roller, brush or bar applicator tool
Flammability	-	non-flammable
Stability	-	12 months in unopened containers
Solids	-	100 %
Viscosity	-	1,880 mPas

- Defoaming - Good but back rolling advised
- Coverage - 1 to 5 sq. m. per L depending on application tool
- Safety - Quite safe to use; refer SDS available upon request. No respirator needed. Use gloves.
- Packaging - 5L + 10L plastic containers

Chemical Resistance of **Eco Poxy Shield High Build 2 Pack Epoxy System**

+ = Resistant
- = Poor

Immersion Weeks	0.5	1	2	4	8	12
Water, Deionised	+	+	+	+	+	+
Hydrochloric Acid 20%	+	+	+	+	+	+
36%	+	+	+	+	+	-
Sulphuric Acid 50%	+	+	+	+	+	+
Ammonia 25%	+	+	+	+	+	+
Xylene	+	+	+	+	+	+
Ethanol 95%	+	-	-	-	-	-
50%	+	+	+	+	+	+
Acetic acid 10%	+	-	-	-	-	-
5%	+	+	+	+	+	+

Film thickness, 300 micron. Cured for 10 days at 20 deg C. Substrate sand blasted steel panel. Immersion temperature 20 deg C.

Persoz Hardness Development

200 micron film on glass

Curing at	1 day	1 week	1 month
5 deg C	too soft	145	195
20 deg C	165	270	290

Flexibility

200 micron film on degreased steel

Aged for 2 months at	Bend angle for fracture in degrees
20 deg C	100 - 180
60 deg C	150 - 180

Developed and produced in Australia from the latest in worldwide non-toxic technology by;
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24 HOUR INFORMATION HOTLINE - 0413 075 994

Spec.	PDS Eco Poxy Shield
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Product users should confirm the fit for purpose in their specific application. Performance on different substrates can vary. For advice contact EcoShield.