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450EP EPOXY TOPCOAT

A two component Epoxy coating system designed to provide a tough and durable finish on masonry, metal and timber surfaces.

- **Product:** 2 Pack Epoxy Topcoat
- **Mixing Ratio** 3 parts Epoxy to 1 part Hardener (450-0001) by volume.
- **Standard Colours** Can be tinted to full colour range.
- **Thinning:** Up to 20% using Universal Reducer 101UT-0001
- **Drying Time** Touch dry 4-6 hours providing temperature is above
Hard dry 12-24 hours
(ambient temperature >15° C relative humidity < 75%)
- **Recoat Time** Overnight (24hours)
- **Corrosion resistance** Excellent
- **Interior exposure** Excellent
- **Exterior Exposure** Coating will Chalk and yellow in Sunlight (UV)
however the coating's chemical resistance is maintained.
- **Abrasion Resistance** Excellent
- **Container Size** 3Lt, 15Lt
- **Prime with** For application to metal, prime with 445EP two pack Epoxy
Primer or 120PE Etch Primer.
- **Coverage** Theoretical 15-20 square metres
Practical 6-8 square metres (Spray application)
- **Gloss Level** Full Gloss

USES: 450EP Epoxy has been specifically designed for applications where a tough, durable and chemically resistant coating is required.

APPLICATION

METAL Ensure surface is free from dirt and grease or metal scale.
Prepare metal surface by mechanical sanding or abrasive blast and wipe clean, a suitable wax and grease remover may be used.
(Dispose of solvent contaminated rags/cloth in accordance with good work practice guidelines)

MASONRY Ensure surface is free from powdery or loose concrete, surface contaminants such as oil, dirt, grease or concrete release agents.

Prepare concrete surface by scrubbing down with a 10% solution of hydrochloric acid and thoroughly rinse all residues off with water.

Allow surface to thoroughly dry before applying any coating. Do not attempt to apply on wet or damp surfaces. Excessive moisture may cause film defects such as drop in gloss, poor cure, reduced chemical and abrasion resistance and delamination of painted surfaces.

Before painting test the concrete for excessive moisture using the 'Plastic Sheet Method'.

PLASTIC SHEET MOISTURE TEST

Tape a plastic sheet (45x45cm) onto the concrete surface being tested; ensuring an airtight seal between the concrete and the plastic is formed. (It is advised that this be repeated over several areas of the slab) After 24 hours remove the plastic sheet and check for presence of moisture. The test patch of concrete must be free of moisture, condensation or darkness in colour when compared to surrounding concrete. If test patch is free of moisture, proceed with painting. If moisture is present, allow a further 14 days drying and repeat the test.

TIMBER Timber must be of suitable grade for furniture manufacture with a moisture content not exceeding 12%. Prepare timber by sanding with at least 180 grit paper ready for application of surface coating. Avoid applying coatings over oily timbers or knots containing sap, a suitable barrier coat may be necessary to avoid delamination or discolouration of topcoats.

System 1/

For metal, apply 445 Epoxy primer, polyester basecoat or polyurethane undercoat and allow 12 hours cure.
Primer coat may be repeated allowing for 12 hours cure time between coats to achieve higher protective film builds.
NB: dft- Dry Film Thickness.

450 Epoxy Topcoat may be applied directly onto masonry.

It is recommended that timber be undercoated with 445 Epoxy primer, polyester basecoat or polyurethane undercoat and allowed to dry for 12 hrs before applying Epoxy 450 topcoat.
(60-100 micron dft)

2nd Sand with 320 grit paper and topcoat with 450EP Epoxy top coat.
(40 – 60 micron dft)

3rd Repeat step 2 if necessary.

**System 2/
Metal**

1st Coat 105 Etch Primer, allow 2 hours cure.

2nd Coat 450 Epoxy Topcoat allow 12 hours cure.

3rd Sand with 320 grit and recoat with 450 Epoxy Topcoat if necessary.

DRYING TIME:

4 - 6 hours touch dry
Hard dry upto 24 hours depending on temperature and humidity
May be force cured in an oven @ 50° C for 30min to 1Hr.

(Note: Dry times are tested at 25°C, below 15 °C drying times are extended dramatically.)

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