

PERMAKOTE

SOLVENT FREE CLEAR COATING EPOXY

Technical
Data Sheet

SOLVENT FREE, TOUGH, DURABLE, TWO PART EPOXY CLEAR COATING THAT POURS LIKE LIQUID GLASS

- A two part solvent free epoxy coating system
- Covers smoothly and hardens to a glass-like finish
- Gives a stunning effect on wood, metal, plastics, ceramics, pictures, prints, paint, cloth, leather, stone, acrylics etc.
- Preserves photographs without yellowing, stops metals tarnishing
- Covers 1.0 - 1.5 m² (12-16 ft²) per litre, in one coat
- Has resistance to water, alcohol, many acids and solvents

PREPARATION

You will need the following to hand: disposable brush; foam roller cover; 2 measuring bowls; 1 smooth-walled mixing container; spatulas, long enough to reach all corners of the mixing container; electric paint stripper or blow torch.

Ensure surfaces are clean and free of dust, polish and wax. Lay plastic sheet or thick layers of newspaper under the surface and raise surface by 5-8cm (2-3 inches) to allow the drips to be caught. It is important to ensure surface is level before pouring.

APPLICATION AT ROOM TEMPERATURE

Mix one part A to one part B by volume – ensure you mix enough for your immediate use. It is better to mix too much than too little so you have enough for the job in hand. However the mix should be used as soon as mixed and not left in the mixing pot in order to prevent bulk exotherm. Scrape out all residue into the mixing bowl. Reseal both packs. Stir slowly and thoroughly for four minutes - careful mixing is essential to avoid air bubbles. Initial cloudiness will gradually disappear. The importance of thorough mixing cannot be over-emphasised.

Pour Permakote onto the prepared surface and allow it to level off. Light strokes with a foam brush will help. To release air bubbles pass a gentle heat over the surface using an electric paintstripper. Alternatively, because Permakote is SOLVENT FREE, a blow torch can be used by holding it about 15 cm (6") from the surface and using a swift even sweeping movement. Heat just after pouring and again after 10/15 minutes. Where Permakote has run over the sides of the surface, it can be removed and smoothed by brushing beneath the edge while still fluid or by sanding off when hard. For exterior use where the epoxy coating is to be in direct sunlight, we recommend applying at least two coats of a two part polyurethane varnish which contains a UV inhibitor and will protect the coating against sunlight.

Note: Permakote will gel in 45-50 minutes and be touch-hard in 6 hours. It needs 4 days to cure to its optimum hardness and quality.

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Additional coats can easily be applied to give an even richer, deeper effect: no further preparation required on horizontal work. The Permakote epoxy has been specifically formulated for decoupage work and under no circumstances should thinners or solvents be added to the system to further reduce the viscosity. Such additives will reduce the effectiveness of the epoxy and ruin the job in hand.

NOTE: DO NOT ADD SOLVENT TO THE PERMAKOTE SYSTEM

CREATIVE IDEAS

Use the Permakote system to cover: table tops, counters, bar tops, signs, advertising, plaques, mounted pictures, prints, photographs wood grains, painted surfaces, fabrics, wall coverings (papers and vinyls) holograms: ceramics without a kiln. Rough surfaces are as successfully encapsulated as smooth ones - try dried flowers, autumn leaves, sea shells, grass cloth, hessians, coins, trinkets, medals etc.

Note: Permakote acts as a glue so simply place objects on flat surface and pour over them, or lay items on top of first coat of Permakote.

PROBLEMS CAUSES AND CURES

Breaking up into small craters just after pouring.	Coating too thin. Allow to find its own level. (Permakote is not a lacquer, requiring firm brushing.)	Re-pour
Haziness on surface	Damp, humid atmosphere.	Re-pour in warm, dry conditions
Small circles resembling raindrops	Drop in room temperature before surface is touch hard. See working environment below.	Re-pour.
Dipping effect	Too much heat applied	Re-pour
Soft spot or crazing effect when dry	Insufficiently mixed.	Re-pour.

FOR BEST RESULTS

Working environment, temperature not less than 21°C (70°F), recommended humidity level below 50%

21°C(70°F) - gel time 40 mins. touch dry 4/6 hours

27°C(80°F) - gel time 30 mins. touch dry 3/5 hours

32°C(90°F) - gel time 15 mins. touch dry 2/4 hours

Note: Horizontal application apply one/two coats; Vertical application apply three or more thin coats.

PERSONAL PROTECTION

Synthetic resins can cause sensitisation if not handled properly and care should be taken to avoid contact with the skin. Before working with these materials the relevant Material Safety Data Sheets must be read:-

Wessex Permakote Resin

Wessex Permakote Hardener

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