

PRODUCT INFORMATION

Envelon Marine Metal Protective Coating



Product Envelon Marine

Description A single pack air dry clear metal protective coating.

Colour Clear - Non Yellowing.

Finish Gloss

Uses For protection of metal surfaces from tarnishing, oxidation and surface abrasion. Quickly forms a tough, impervious film. Especially suitable for polished aluminium, brass, copper & steel. Provides excellent protection against tarnish during fabrication and installation. Will not peel away. Ornamental brass, copper and chrome fittings are an application on which Envelon Marine provides outstanding long term results- even under outdoor exposure.

Properties

- * Very clear
- * Non yellowing
- * High abrasion resistance
- * Fast drying
- * Excellent adhesion
- * Stops metal tarnishing

Performance

Weathering : Very good resistance and UV stability
Solvent Resistance: Poor
Chemical Resistance: Good
Abrasion Resistance: Excellent
Water: Excellent
Temperature: Suitable for all ambient conditions
Flexibility: N/A

Technical

Recommended Coverage: 20 m² per litre @ 10 microns DFT
Recommended Film Build: 50 microns applied in three light passes
Touch Dry: 5 minutes, to handle 15-30 minutes
Recoat: 1 hour
Full Cure: 48 hours
Application Method: Spray
Thinning: Not required
Clean up: Envelon Thinners 5
Shelf Life: 12 months in an unopened can
Handling: Extremely flammable. Refer to current MSDS.
Packaging: Available in 500ml, 1 litre, 4 litre and 20 litre containers.
Number of Coats: 3



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APPLICATION DATA



Surface Preparation Ensure the surface is clinically clean and free of any contamination. If the surface has been polished, ensure that the polish was silicone free. If silicone is present in any form this will effect adhesion. Do NOT use a petroleum solvent as a final wipe down, as this too will effect adhesion. The final wipe should be with methylated spirits.

Mixing Stir contents thoroughly with a broad flat paddle. Do not use a power mixer.

Thinning Not usually recommended. Envelon Marine may be thinned slightly to assist flow in the spraying process.

Application	EQUIPMENT	Conventional Spray	Pressure Pot Spray	Airless Spray	HVLP Conventional	HVLP Pressure Pot
	Fluid Nozzle	1.5-2.0mm	1.0-2.0mm	9-13 thou	1.5-2.0mm	1.0-1.5mm
	Pressure to the Gun	30-50 psi	30-50 psi		30-50 psi	30-50 psi
	Pot Pressure		1030 psi			10-30 psi
	Pump Ratio			16-20:1		
	Pump Pressure			1000-1500		
	Pressure to Air Cap				10 psi	10 psi

METHOD **Spraying** - Hold the spray gun 20-30 cm from the surface. Using smooth rhythmic passes, overlap each coat by 50%. Avoid flooding as this will cause runs. Avoid air entrapment. The final result should be a smooth gloss finish.

Brushing - Use a good quality varnish brush on flat surfaces or small areas where spraying is not feasible. Apply as three thin coats to prevent runs. Dip the bristles in Acetone and wash out every ten minutes to prevent product drying in brush and causing lumps.

Lint Free Cloth - Damp out a lint free cloth and apply by hand. Works well on small areas and curved surfaces where spraying is not feasible. Apply as three thin coats to prevent runs. Wear acid resistant gloves such as PVC or Nitrile.

Safety Contents are extremely flammable. Keep away from sources of ignition eg. naked flame, radiators etc. Application equipment must not spark. Keep contents sealed and away from children. Avoid breathing vapours during mixing and use. Wear protective clothing including safety goggles, gloves and respirator. If swallowed call a doctor or Poisons Information Centre. When spraying in confined areas assist ventilation to provide fresh air.

For more detailed safety precautions consult a Material Safety Data Sheet available from the manufacturer.

Precautions * The user must first satisfy themselves of product suitability by applying a small amount to an inconspicuous test area.

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