

ENVELON 442

ASSOCIATED PRODUCTS	441, 452
DESCRIPTION	A plasticised, permanently flexible polyvinyl chloride copolymer solution coating.
COLOUR	Aluminium grey or white, or selected colours to order.
FINISH	Satin/Matt. Stippled.
USES	Where a heavy duty envelope type coating is required for waterproofing, dustproofing, gasproofing or vapourproofing in internal and external applications. Excellent "mothball" coating. Will bridge cracks, voids and openings readily. Both protective and decorative.
TYPICAL APPLICATIONS	Food production and storage areas. Controlled atmosphere rooms, silos etc. Roof, wall and parapet protection. Machinery, die storage and transportation. Dustproofing in mine areas. Electrical switch gear protection in corrosive environments. Weatherproofing of living quarters, eg rigs, mines etc. Building interiors and exteriors.
PROPERTIES	<ul style="list-style-type: none">• Will bridge gaps and cracks up to 50mm wide, yet remains a self-supporting membrane.• A tough, highly flexible and durable impervious membrane, for either internal or external application.• Fast drying, recoatable within minutes to facilitate quick build and easy repair or maintenance, with total intercoat adhesion.• High resistance to chemical attack – ideal in industrial, marine and rural situations. Excellent weathering.• Surface resists scuffing and abrasion, while providing a seam free surface.
PERFORMANCE	<p>WEATHER: Resistant to extreme weather conditions. Slight chalking of surface may occur under high temperatures from U.V. Suitable for aggressive environment atmospheres.</p> <p>ABRASION: Excellent resistance to abrasion.</p> <p>ADHESION: Adheres strongly to suitably prepared and primed surfaces when cured. As with all such coatings initial adhesion depends upon proportion of residual solvent in film after application.</p> <p>CHEMICAL: Resistant to a wide range of organic and inorganic chemicals. Not recommended for exposure to ketones, esters and hydrocarbons of high aromatic content. Consult DOMINION PLASTIC INDUSTRIES for specific recommendation.</p> <p>IMMERSION: Suitable for fresh and salt water. Total immersion.</p> <p>TEMPERATURE: Dry temperature service up to 80°C. Remains flexible to 0°C.</p>
TECHNICAL	<p>DRYING TIME: Air dries to touch in 4 minutes, to handle in 20 minutes and progressively cures in 12-24 hours, and is then serviceable.</p> <p>CURING TIME: coating progressively cures over several days, depending on temperature and ventilation present.</p> <p>SHELF LIFE: Serviceable after 12 months when stored in sealed containers below 30°C.</p> <p>RECOMMENDED DRY FILM THICKNESS: Depending on the service requirement of coating, between .12mm to .15mm subject to recommendation of specification. Film may not be impervious below .12mm.</p>

APPLICATION DATA

SURFACE PREPARATION: CONCRETE ETC: New concrete should be acid etched, flushed with plenty of water and allowed to fully dry. Old or contaminated concrete may need to be blasted to acquire a sound surface. Once the surface has been adequately prepared apply ENVELON PRIMER 200 to 40 um. and allow to dry 15 mins before topcoating with ENVELON 442.

STEEL: Round off edges and remove weld spatter. Blast clean necessary areas to AS 1627:4 Class 2 ½ standard and treat required areas with suitable anticorrosive primer. Contact should be made with the supplier or DOMINION PLASTIC INDUSTRIES for specific recommendation. The entire area should then be coated with 40 um. of ENVELON PRIMER 200 and allow to dry before topcoating with ENVELON 442.

ALUMINIUM & GALVANISED IRON: Degrease entire surface with ENVELON DEGREASING SOLUTION and allow to dry. Apply a single mist coat of a suitable two pack etch primer and allow to cure. Application of ENVELON PRIMER 200 to the entire surface should then follow and allowed to dry. Apply ENVELON 442 to primed surface to recommended thickness.

MIXING: Stir thoroughly until smooth and homogeneous. Best results will be achieved using a power stirrer. ENVELON 442 is thixotropic so may require longer stirring in cold weather, if stored for a long time or stored in cold conditions. Heavy, smooth consistency is normal.

THINNING: Not normally recommended. Use straight from the can. Any thinning for workability should be done with ENVELON THINNERS 5.

SPRAYING: Conventional air atomising or airless spray equipment is recommended. The following equipment has been used and found suitable, however, equivalent equipment may be substituted.

	GUN	AIR CAP, FLUID TIP/NEEDLE
Binks-Bullows	230	68PB2110
Arnold (CIG)	BETA	410553
Devilbis	J.G.A	62AC

Moisture traps should be installed to avoid contamination of the coating. For airless spraying, use a machine of at least 16000kPa capacity and with adequate volume output for the specific application. A tip of .11" or .013" is normal; fan width should be chosen for particular work involved. For application to roof areas, a pole gun extension may be helpful. Continuous agitation is recommended during spraying operation.

APPLICATION: Apply as a wet even coat, using parallel passes overlapping by approx 50%. Cross coats also ensure and even total thickness.

FIRM BUILD: A minimum dry film thickness of 500 um. or .500mm should be applied in successive passes, coat on coat, or thicker as recommended for specific application. Measurement of the dried film should be made by a reliable inspection instrument.

SECOND & REINSTATEMENT COATINGS: Recoating of the initial coating may take place at any subsequent interval. Ensure that the original surface is free of contamination before achieving the required film thickness.

SAFETY PRECAUTIONS: Follow painting precautions. Contents are flammable. Keep away from naked flame, radiators etc. Keep contents sealed and away from children. If swallowed call a doctor or Poisons Information Centre. During mixing or use avoid breathing vapours. Wear protective clothing and if needed, goggles, mask and respirator. When spraying in confined areas assist ventilation to provide fresh air. Equipment must not spark. For detailed safety precautions, contact should be made with the supplier or DOMINION PLASTIC INDUSTRIES.

WHERE MORE SPECIFIC DETAILS ARE REQUIRED RELATING TO THE APPLICATION OF THE PRODUCT, CONTACT SHOULD BE MADE WITH DOMINION PLASTIC INDUSTRIES, OR AND APPOINTED AGENT.

- ★ RECOMMENDED DRY FILM THICKNESS PER COAT: .200-.250mm (200-250um)
- ★ THEORETICAL COVERAGE AT .025mm (25um) PER COAT: 8.18 square metres, dry film thickness
- ★ THEORETICAL COVERAGE AT .500mm (500um) DRY FILM: .4087 square metres.
Allow for surface irregularities and application losses etc when working coverages.
- ★ NUMBER OF COMPONENTS: One pack
- ★ APPLY OVER: Suitably primed surface
- ★ APPLY BY: Spray is preferable
- ★ DRYING TIME: To touch in 2-5 minutes. Can be recoated immediately.
- ★ CLEANING & THINNING: ENVELON THINNERS 5
- ★ PACKAGES: 20 Litres and 4 Litres