

Water Based Two Pack Polyurethane Undercoat

ENVIROTHANE 8441

PRODUCT DESCRIPTION: A & I Coatings **ENVIROTHANE 8441** is a water-borne environmentally friendly two pack undercoat for timber, CFC and it is specially designed to have better penetration and adhesion on powdering surfaces (or other cementitious surfaces). It gives excellent adhesion, barrier, sealing and film properties, and has good sanding and overcoatability.

TYPICAL APPLICATIONS:

Interior and exterior:

- CFC board or panel
- Timber
- Cementitious board

TECHNICAL INFORMATION:

Vehicle Type	: Acrylic polyurethane.	
Hardener	: Water dispersable isocyanate.	
Pigmentation	: Titanium Dioxide and fillers.	
Mixing Ratio	: 5:1(Pack A : Pack B) by Volume.	
Pot life	: 2 hours @ 20°C.	
Finish	: Flat.	
Colour	: White	
Dry time	Touch dry	30 mins @25°C
(minimum)	Dry to handle	4 hours @25°C
	Dry to sanding	16 hours @25°C
	Full cure	7 days
Recoat time	: May be recoated after tack dry e.g. 2 - 12 hours depending on temperature.	
(minimum)		
Theoretical Coverage	: 6.5m ² /L 75µm DFT (154µmWFT).	
Volume Solids	: 48.8%.	
Recommended DFT	: 75 microns.	
Usual no. of coats	: 1 – 2 coats.	
Flexibility	: Good.	
Bacterial Resistance	: Excellent.	
Chemical Resistance	: Good.	
Solvent Resistance	: Good.	
Thinning and cleaning	: Water.	
Durability	: Good.	
Product weight	: Pack A 1.58Kg/Litre	Pack B 1.03Kg/Litre
VOC Content	: 147 grams/Litre	

MERITS:

1. Excellent sealing properties.
2. Fast dry for ease of sanding.
3. Good mechanical properties.
4. Good gloss hold out for topcoat.

LIMITATIONS:

1. Pack A and Pack B must be mixed with power stirring.
2. The mixed paint need to be use away within the period of pot life.

APPLICATION DATA

Mixing : Power stir Pack A with Pack B thoroughly for at least 3 minutes, maintaining the stirring speed at medium and avoid over stirring. Thin 10 – 15% with water as necessary and gently stir.

Equipment : Air or Airless Spray, brush, or roller. (**A & I Coatings** technical staff can advise on the most appropriate equipment for a specific task).

Cleaning : Water

Typical Specification : Board sealer
Apply one coat at 75 microns DFT. Minimum dry for 16 hours then sanding.
Apply E8450 Two Pack Urethane topcoat.

SURFACE PREPARATION:

CFC and Cementitious Board

All surfaces to be structurally sound and free of contamination, particularly salt deposits. Loose or flaking paint must be removed by 180 grit sandpaper with orbital sanding to achieve smooth uniform surfaces, providing a sound mechanical key profile for the topcoat to adhere to. Ensure surface is dry and free of all sand, dust, oil, grease and moisture before painting.

Timber

Timber is dimensionally unstable material that expands and contracts with changing atmospheric conditions.

Generally timber to be coated can be prepared by:

PRETREATMENTS

1. Thoroughly clean down to remove all loosely adhered materials.
2. Treat all moss and mould.
3. Thoroughly wash down with detergent and water to remove all dirt, dust and grease etc

SANDING

Thoroughly sand along the grain to remove minor imperfections and any loose surface fibres. Precautions:

1. Always coat any end grains thoroughly.
2. Do not coat the timber if moisture content is high.
3. Do the filling of nail holes etc with suitably coloured putty or filler after priming.
4. Give extra attention to corners and edges.

WORK STOPPAGES : Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with **A & I Coatings** recommended cleaner. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units.

CLEAN UP : Clean all equipment after use with **A & I Coatings** recommended cleaner. It is good work practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including and delays.

PACKING & STORAGE

Packing : Available in 18L packs. For availability of other sizes, contact **A & I Coatings**.

Storage : 12 months if stored in sealed containers away from heat and moisture. Subject to re-inspection thereafter.

HEALTH AND SAFETY : All applicable statutory regulations must be observed in the application of this product. Users must first read the Material Safety Data Sheet for Envirothane 8441. Users should familiarise themselves with all the safety accepts of the product prior to usage.

Please ensure the current Technical Data Sheet is consulted prior to specification or application of **A & I Coatings** products. If the surface intended to be painted differs from the specification, please consult the **A & I Coatings** Technical team on 1800 819 585.

All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

Note: The figures quoted for pot life and drying/curing times are not definitive. They are dependent on site conditions, such as volume of material mixed, ambient and substrate temperatures, weather and ventilation.

DISCLAIMER

Since the use and application of this product is beyond our control we cannot be held responsible for product field performance. The information presented above is the result of our considerable experience with this product but is not to be construed as a performance warranty.

For additional information, phone our Customer Service Centre on **1800 819 585**.
JULY 2010 - THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED.