ENVIROTHANE 8470

TECHNICAL DATA SHEET

Two Pack Water Based Clear / Pigmented UV Stable Polyurethane Topcoat

A & I Coatings **Envirothane 8470** is a high-performance, waterborne two-pack acrylic polyurethane topcoat designed for the protection of concrete and steel substrates. The coating combines low VOC content with excellent application properties and can be applied by brush, roller, or spray. It provides rapid drying, outstanding UV stability, and excellent resistance to yellowing, making it suitable for both interior and exterior environments. **ENVIROTHANE 8470** may be used over compatible epoxy primers and intermediate coats to form a durable protective coating system. The formulation incorporates antimicrobial technology to inhibit the growth of bacteria, fungi, and algae on the cured coating surface, helping to maintain coating cleanliness and appearance.

USES & BENEFITS

- Showrooms
- Commercials Offices
- External concrete coatings
- Masonry
- Retail
- Seamless Floors
- Shopping Centres
- Storage Facilities
- Structural Steel

Benefits:

- Excellent colour retention
- Suitable for brush, roller, and spray application
- Low VOC, Meets Greenstar requirement
- UV Resistance
- Resistance to fungal and bacterial build up
- Low odour

Limitations

- Only available in Satin
- Not to be applied below 10°C or above 85% R.H.
- Excessive film thickness could cause whitening in clear coats.
- Not to be applied directly to concrete.

PROPERTIES

Vehicle Type	Acrylic Polyurethane
Hardener	Water dispersible Isocyanate
Ratio	8 : 1 by Volume (Part A : Part B)
Pot Life	~ 2 Hours @ 25°C, 60% R.H. **Do not exceed pot life, even if product is still liquid, it will lead to uneven surface sheen and colour.**
Colour	Clear or pigmented
Finish	Satin
Volume Solids	~ 43 %
Theoretical Coverage	7 – 9 m^2/L @ 50 – 65 µm DFT per coat
Usual No. of Coats	2 Coats
Product Density	1.1 – 1.3 kg/L depending on colours
VOC Content	36 g/L
Primer Requirement	Concrete: Enviroset 2000 Clear Gloss or Enviroset 2100 Steel: Envirophos 2300 Contact A&I Coatings for further information
Application Conditions	10 – 35 °C, **below 85% R.H.** Substrate temperature must be at least 3°C above the dew point.

Curing Data

Substrate Temperature	Foot Traffic	Vehicle Traffic	Full Cure	Minimum Recoat
25°C, 60% R.H.	16 Hours	72 Hours	7 Days	4 Hours

The maximum recoat time is 48 hours at 25°C, 60% R.H. If the maximum recoat time is exceeded mechanical abrasion must be carried out to ensure a good mechanical bond.
Ensure no water or condensation contact for 2 days from application.

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A&I COATINGS

ENVIRO choice

	Ensure good air flow is achieved during curing for a proper aesthetic finish.	
RESISTANCE PROPERTIES	Abrasion Resistance	Excellent
	Dry Heat Resistance	120 °C
	Solvent Resistance	Good
	Durability	Very Good
	Hot Water Resistance	60 °C
	Salt Spray Resistance	Good
	Chemical Resistance	Good Contact A&I Coatings for further information
SURFACE PREPARATION	General Information	This product is intended for use as a topcoat only. Refer to the relevant primer Technical Data Sheet for surface preparation.
	Repaints	The surface must be sound, dry, and free of all loose material, laitance, dust, and surface contaminants such as oil, grease, chemicals, and release or curing agents. While Envirothane 8470 may achieve satisfactory adhesion to existing coatings, a test patch is recommended prior to application.
APPLICATION DATA	Mixing	Pre-mix part A for one minute, then mix Part A and B at 8:1 by volume and mechanical mix for two minutes. Only mix the required amount and use within the stated pot life. Ensure any unused Part B is resealed immediately after use.
	Application	Air or airless spray, brush or roller. Contact A & I coatings for advice on appropriate equipment for specific task.
	Cleaning	Clean tools and equipment using clean water.
	Thinning	5 – 10 % water, if required.
WORK STOPPAGES	General Information	Do not allow material to remain in hoses, gun, spray equipment or other application equipment. Thoroughly flush all equipment with clean water. Once the component has been mixed, do not resealed the mixed material. After prolonged stoppages, commence work with freshly mixed material.
	Clean Up	Clean all equipment with clean water. Periodically flush spray equipment during application. Cleaning frequency will depend on the amount sprayed, temperature, and elapsed time, including delays.
PACKING & STORAGE	Packing	Available in 9L Kits. Contact A & I coatings for other size requirements.
	Storage	12 months when stored indoors in original sealed containers, away from heat and moisture, at temperature of 5 – 30°C. Refer to current Safety Data Sheet for information on safe handling and storage.
	Waste Disposal	Dispose of in accordance with local regulations.
HEALTH & SAFETY	All applicable statutory regulations must be observed during application. Users must read the Safety Data Sheet for **Envirothane 8470** and familiarise themselves with all safety	

	aspects of the product before use.
ADDITIONAL INFORMATION	Please ensure the current Technical Data Sheet (TDS) is consulted prior to the specification or application of A & I Coatings products. In many instances, A & I Coatings provides area-specific instruction sheets containing detailed application guidance to achieve the desired performance for particular substrates and service conditions. If the intended substrate or application differs from the specified system, please contact the A & I Coatings Technical Department on 1800 819 585 for further advice.

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.