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ECO-Seal 100 Clear

Two Pack Flexible Self Priming high hysteresis waterproofing membrane designed for on-site application to decks, bench tops, roofs, walls, and surfaces that require toughness, UV stability and a high degree of protection from water ingress. Especially suitable for wooden structures that require the highest level of protection and appearance.

ECO Seal 100 clear is a zero VOC product suitable for most substrates .

Intended Uses As a high performance clear sealer, protective coating over flexible substrates.

Practical Information for ECO Seal 100 Clear

Colour	Clear
Gloss level	Medium gloss
Volume Solids	>99%
Typical Thickness	1000 - 2500 microns dft per coat 1000 -2500 microns wet
Theoretical	
Coverage	1 m ² / litre at 1000 microns dft
Method of	
Application	Airless spray, brush, roller

Drying Time

Temperature °C	Touch dry	Hard dry	Overcoating time with self
10°C	3 hrs	6 hrs	16 hrs
20°C	1.5 hrs	4 hrs	12 hrs
25°C	1 hrs	3 hrs	6 hrs

All drying time data is quoted on a wet film thickness of 1000 microns and assumes good airflow and humidity.

Regulatory Data

Flash Point	>100°C
Product density	1.02 Kg/L
VOC	<0.01g/L

Surface Preparation

See guide Specifications for detailed information.

All surfaces to be coated should be clean, dry and sound. Prior to paint application, all steel surfaces should be assessed and treated in accordance with ISO 8504:2000.

ECO Seal 100 Clear may be applied over galvanising, butyl rubber (when cleaned thoroughly), STPU and STPE sealer coats when used as waterproofing membranes and properly installed, fibreglass, acrylics, aluminium, dry timber and PVC. If any doubt over suitability of a substrate for ECO Seal 100, it is highly recommended to do a test area and an adhesion test after 24 hours of product curing.

Application **Mixing** This material is a two component coating system and should always be thoroughly mixed before application in the correct ratio.

Mix Ratio 1.00Kg of Part A to 1.00 Kg of Part B -may be diluted to application viscosity after mixing both components. Roller application with an 8mm nap will require 0. 2L of solvent blend per kit, and will then cover 2 m² per kit/coat - giving an DFT of 1000 microns.

Airless Spray Tip range 19-25 thou, 2500 psi

Brush Suitable for small areas - multiple coats may be needed to achieve the required dft.

Roller	Suitable for small areas Typically 800 microns wet film per coat.
Thinner	Special solvent blend
Clean up	Hexane or DMF
Pot life	Once mixed ECO Seal 100 Clear will remain workable for 1 - 1 1/2 hours, mix in the supplied containers to avoid seeding of the product with partially cured material.

Work Stoppages Do not allow material to remain in hoses or spray equipment for more than 30 minutes.

All unused material should be stored in tightly closed containers. Use a FIFO stock control.

Clean up Clean all equipment immediately after use. It is good working practice to periodically flush out spray equipment during the course of the day.

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

Product

Characteristics ECO Seal 100 Clear should be stored in dry conditions above 5°C. For optimum application and drying characteristics the substrate and the air should be greater than 10°C and relative humidity between 50 and 85%. Good air flow and ventilation should be maintained to improve curing and re-coat properties and speed up application.

Discard cured excess ECO Seal 100 Clear in accordance with local disposal regulations.

Surface temperature should always be 3°C above the dew point. In line with best painting practice, application should not take place in conditions which are deteriorating ie the temperature is falling, or inclement weather is imminent. ECO Seal 100 Clear is rain fast after 2 hours at 20°C.

The finished appearance of ECO Seal 100 Clear is dependent on application method. For visible areas spray application is preferred, which can provide a smooth finish.

Higher decorative finishes may require additional preparation before application of top coats. Maybe over coated with ECO Seal 100 Clear after 2 hours under typical conditions.

Safety

Precautions ECO Seal 100 Clear is intended for use only by professional applicators in industrial situations in accordance with industry best practices.

All work involving the use and application of this product should be performed in compliance with all relevant national Health, Safety and Environmental standards and regulations.

Pack Sizes 1,0L Volume Part A

1.0L Volume Part B

2.03 Kg Weight

Shelf life = 12 months in original unopened packaging

PHYSICAL PROPERTIES

Abrasion Resistance	ASTM D4060	0.14g/1000 cycles
Bond Strength MarinePlywood	ASTM D4541	12.7 MPa on STPU, Galvanising and
Elongation	ASTM D4541	300 %
Durometer Hardness	ASTM D2240	>100 Shore D
Impact Resistance	ASTM D2794	18Nm@2mm
UV resistance	ASTM D2565	Less than 1% change in gloss or elongation after 18,000 hours accelerated testing
Scratch Resistance	ASTM D1242	0.03mm after loading removed 60s.
Chemical Resistance	ASTM D543	Excellent against acids, alkalis, petroleum spirits, cleaning chemicals and agrochemicals.

