



Quality Coatings Since 1950

Data Sheet No. 1027/101

ALL-SEAL

Pre-Catalysed Undercoat
White

Date of Issue: 24 / 11 / 06

Description

A high capacity single pack pre-catalysed white undercoat. Used to undercoat and seal interior timber surfaces. All Seal contains a wax inhibitor that seals MDF board and eliminates tannin bleed in preparation for Pylons single pack and acid cat coloured top-coats.

Principal Uses

- Cedar blinds & shutters
- Built-in wardrobes
- Internal doors
- Undercoat for Hy-Tech colours
- Undercoat for Epsilon colours
- Undercoat for Colour-Cat colours

Features & Benefits

- Extremely high opacity / coverage
- Wax inhibitor for sealing MDF
- High build / solid content
- Repels tannin bleed
- Fast drying
- Easy sanding ability
- Superior vertical hold-up
- Limits number of coats required

Availability

Colour: White
Gloss level: Low Sheen

Equipment Wash

Clean all equipment using Pylon Thinner C or Solvent MEK.

Data Sheet Procedure

Pylon Coatings advises that this data sheet and the relevant MSDS must be completely read and understood prior to application.



Application

By spray application in a suitable and approved spray booth.

Wet Film Thickness (WFT)

125 – 175 microns wet, per coat (*ref. pg. 3*).

Theoretical Coverage

Flat Panels: 7 – 9 metres²/Lt



Mixing & Thinning

Stir contents thoroughly with a flat stirrer before and after adding thinners.

Up to 40% of recommended Pylon Thinner pending system, (*ref. pg. 2*).

Fast	Thinners C or B
Medium	Thinners A
Slow	Retarder Thinners



Drying Times @ 25° C

Dust Free	5 – 10 mins
Print Free	15 – 25 mins
Sand & Re-Coat	90 – 150 mins
Hard Dry	1 – 2 days



Pot Life

N/A, though evaporation may occur over time and therefore extra thinners will be required.



Solid Content

By Weight 29%

Packaging



4Lt




20Lt

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Application System Guide

(based at 25° C and 60% humidity)

	<u>% Thinners</u>	<u>Fluid Nozzle</u>	<u>Air Pressure</u> 			
			<u>Gun</u>	<u>Pot Pressure</u>	<u>Pump</u>	<u>Pump Ratio</u>
Suction Pot	30 – 45%	1.8 – 2mm	50 – 60psi			
Gravity Pot	25 – 35%	1.8 – 2mm	45 – 55psi			
Pressure Pot	20 – 25%	1.5 – 2mm		15 – 30psi		
Air Assisted Airless	15 – 20%	11 – 13 thou			1000 – 1500psi	12 – 20:1
Straight Airless	5 – 15%	9 – 11 thou			1000 – 1500psi	16 – 20:1

- **HVLP**; set the air cap pressure at 10psi and use the guide as indicated for suction pot.

Viscosity

at 25° C, measured with a Ford 4 cup, + or – 3 seconds

170 seconds



Surface Preparation

- 1) Surface must be clean, dry and free from dust, grease, dirt and all other contaminants before proceeding.
- 2) Fill small defects, cracks and holes with a suitable putty. Allow sufficient time to dry as per specifications.
- 3) **Sanding**
 - a. Wood substrates; use 150 - 220 grit free-cut sandpaper with the grain until the surface is smooth and even.
 - b. MDF board; use 180 - 240 grit free-cut sandpaper paying special attention to all mouldings. Sand until the surface is smooth and even.
- 4) Remove all sanding dust using an air gun and a clean lint free cloth.

Tinting

- If tinting is required, a concentrated tinter is available from Pylon to create pastel shades. Add the selected tinter and agitate till the colour is consistently dispersed. The maximum amount of tinter is 10% by volume.



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Finishing Specifications

- 1) Following the surface preparation remove all sanding dust using an air gun and a clean lint free cloth;
- 2) **Application;** apply a coat of pre-mixed All-Seal as per the *application system guide* listed on page 2.
Application Tip: For best results with Pylon's All-Seal, apply a light dust coat onto the substrate, leave for approx. 5 – 15 mins, then apply a wet coat (WFT 125 – 175 microns). This will assist in sealing MDF board and also reduce the chance of tanning bleed in solid timber.
- 3) Allow 90 – 150 mins. to dry depending on temperature, or leave to dry overnight for best results.
- 4) Sand using 180 - 240 grit free-cut sandpaper paying special attention to the all edges and mouldings. Sand until the surface is smooth and even. If necessary, repeat steps 2 and 3 ensuring that the maximum build does not exceed a dry film thickness of 75 microns, therefore a total of 2 coats when using a conventional spray, or 1 coat by airless spray.
- 5) Proceed to suitable top coat.



Application Tips

- A light dustcoat for the first coat on MDF board will assist in sealing and especially assist on moulded surfaces. Also a dust coat to seal raw timber and veneer substrates will reduce bubbling;
- If orange peel occurs, either reduce the air pressure, add more thinners or use a slow thinner to suit;
- If pin holes occur, either apply a lighter coat or add a slower thinner;

Thinners Selection

Fast Thinners C
Medium Thinners A

A fast thinner is usually suggested for the All-Seal as this will make the coating more efficient and also assist the sealing ability. Medium thinners are only suggested for use in extreme hot and/or humid conditions and will assist with large flat surfaces to slow down the flash off time.



Storage Instructions

Store in an approved dangerous goods cabinet or bunker.

Shelf life; 12 months if unopened and stored in dry condition below 35° C.

Opened product should be used within 6 months.



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Health and Safety

Ensure that all individuals using this product have read and understood this data sheet and the related MSDS.

Sanding dust and spray mist are produced when using this product, so operators should comply with the following guidelines:

- application to take place in a well-exhausted spray booth that complies with AS 4114;
- wear a cartridge respirator conforming to AS/NZ 1715/16 - 1994;
- wear eye protection glasses or goggles conforming to AS/NZ 2161 - 1978;
- wear ear protection if the noise level is above 85 dB. AS/NZ 1270 - 1988;
- avoid contact with skin and eyes and avoid breathing the vapour or spray mist;
- wear suitable protective clothing including rubber or PVC gloves and safety goggles;
- when using the product, do not eat or smoke;
- keep away from heat and naked flame as this is a flammable liquid;
- if poisoning occurs DO NOT induce vomiting, give a glass of water and contact a doctor or the **Poisons Information Centre ph: 131 126.**

Do not use if you have chronic (long term) lung or breathing problems.



Warnings

Pylon Coatings advises that:

- you review, understand and follow this data sheet and the MSDS before use;
- we only recognise a coating system that has been exclusively used with Pylon products;
- the total dry film thickness should not exceed 150 microns, as excessive build can lead to stress cracking as the substrate adjusts to its new conditions of temperature and moisture;
- All-Seal should be tested on an off-cut of the selected substrate before proceeding;
- All-Seal is not recommended in high moisture areas eg; bathroom fixtures & vanities, kitchen bench tops, bar tops, etc;
- All-Seal is for selected internal timber, veneer and MDF surfaces;
- All-Seal should not be used directly on timber and veneers that have an uneven moisture content such as Beech. Use Pylon's Image polyurethane to seal the surface in preparation;
- All-Seal should not be exposed to extreme temperature, ultra-violet light, high humidity or severe abrasion;
- while All-Seal will create an excellent protective film, it cannot protect the wood from aging from direct sun, and discolouration through the natural tannins found in the timber;
- All-Seal is not to be applied during extreme temperatures, i.e. above 38° C and below 8° C.

Condition of Use

All Pylon Coatings products are manufactured from high-grade materials to a rigid quality assured system ISO 2001. We have no control over the conditions under which these products are stored, transported, handled or used, so customers are advised to test the product before adapting them to their own use. The information contained in this data sheet is based on data appraised in our own laboratories and from comprehensive market research. Pylon Coatings can only control the quality and formulation of our own products, and have no control over the quality or consistency of other products or substrates to which the products are being applied. Due to the possible variations between our controlled laboratory test conditions and techniques, differences in application and the vast range of substrates in today's market, Pylon Coatings supplies its products only on the condition that the consumer is satisfied with the performance of the product in meeting their requirements.