



Quality Coatings Since 1950

Data Sheet No. 1036/101

ACE-CAT SEALER

Acid-Catalysed Low Toxic Coating

Clear Sealer

Date of Issue: 24 / 11 / 06

Description

A quality low formaldehyde, high build acid-catalysed clear sealer. Formulated to seal internal MDF board, timber and veneer surfaces, in preparation for Pylon's Ace-Cat Clear top-coat range.

Principal Uses

- Open grain timber and veneer
- MDF board
- Sealer for Pylon's Ace-Cat clear range

Features & Benefits

- Low formaldehyde and odour
- Free of hydrocarbon solvents
- Extremely high build
- Easy sanding ability
- Great flow & levelling properties
- Superior vertical hold-up
- Limits number of coats required

Availability

Colour: Clear
Gloss Ratio: 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: 8 – 10 metres²/Lt



Mixing & Thinning

Mix Ratio	Part A	Part B
20 : 1	20 1Lt	1 50mls

Mix 20 parts "Part A" to 1 part "Part B" thoroughly with a flat stirrer, then let it stand for 10 mins before adding thinners.

Fast Thinner C

Medium Thinner A

Slow Ace-Cat Thinners

Ace-Cat Thinners are a hydrocarbon free thinner. 5 - 35% Pylon thinners, (*ref. pg. 2*).



Drying Times @ 25° C

Dust Free 10 – 15 mins

Print Free 20 – 30 mins

Sand & Re-Coat 90 – 120 mins

Hard Dry 3 – 4 days



Pot Life

24 - 48 hrs pending temperature and humidity.



Solid Content

By Weight 51.5%

Packaging 4.2Lt kit & 21Lt kit



4Lt




20Lt

Part "A"

Part "B" 200ml 1Lt

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	25 – 35%	1.8 – 2mm	40 – 55psi			
Gravity Pot	20 – 30%	1.8 – 2mm	40 – 50psi			
Pressure Pot	15 – 20%	1.5 – 2mm		15 – 30psi		
Air Assisted Airless	10 – 15%	11 – 13 thou			1000 – 1500psi	12 – 20:1
Straight Airless	5 – 10%	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

91 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 180 - 280 grit free-cut sandpaper with the grain until the surface is smooth and even.
 - b. MDF board; use 220 - 280 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 clean lint free cloths.

Staining and Toning

- **Staining;** following the preparation, apply the suitable stain and colour from Pylons range.
- **Toning;** extra colour depth can be achieved by adding up to 10% by volume of Pylon Fast Stain. Toning is advised in the 2nd coat.



Quality Coatings Since 1950

Data Sheet No. 1036/101

ACE-CAT SEALER

Acid-Catalysed Low Toxic Coating Clear Sealer

Date of Issue: 24 / 11 / 06



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 Ace-Cat Sealer as per the *application system guide* listed on page 2.
Application Tip: For best results with Pylon's Ace-Cat Sealer, apply a light dust coat onto the substrate, leave for approx. 10 – 20 mins, then apply a wet coat (WFT 125 – 175 microns), this will assist in sealing MDF board and reduce the chance of bubbling in open grain timber and veneers.
- 3) Allow 90 - 120 mins to dry depending on temperature, or leave to dry overnight for best results.
- 4) Sand using 220 - 280 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. 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, try to apply a lighter coat or add a slower thinner
- If blooming or chilling occurs add a slow retarder thinner.

Thinners Selection

Fast	Thinners C
Medium	Thinners A
Medium	Ace-Cat Thinners

Thinners C can be used to speed up the drying process, and can also reduce wax penetration when sealing MDF board. Ace-Cat Thinners will enhance the flow, and levelling of the coating and are a hydrocarbon free thinner.



Storage Instructions

Store in an approved dangerous goods cabinet or bunker in dry condition below 35° C.

Shelf life; Part A - 12 months if unopened and Part B - 6 months if unopened.

Opened products should be used within 6 months.

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;
- Ace-Cat Sealer should be tested on an off-cut of the selected substrate before proceeding;
- Ace-Cat Sealer is not recommended in high moisture areas, eg; bathroom fixtures & vanities, kitchen bench tops, bar tops, etc;
- Ace-Cat Sealer is for selected internal timber, veneer and MDF surfaces;
- Ace-Cat Sealer 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;
- Ace-Cat Sealer should not be exposed to extreme temperature, ultra-violet light, high humidity or severe abrasion;
- while Ace-Cat Sealer 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;
- Ace-Cat Sealer is not to be applied during extreme temperatures, i.e. above 38° C and below 10° 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.