



# IMAGE DECORATIVE GLASS COATING

## Polyurethane Coating System Colour

Data Sheet No. 1046/101

Quality Coatings Since 1950

Date of Issue: 24 / 11 / 06

### Description

Two pack polyurethane coating system designed to adhere to glass surfaces. The Image Glass Coating is an innovative system that is part of Pylon's Image Gloss polyurethane range. It is a user friendly system that comes in a vast range of colours.

### Principal Uses

- Glass splashbacks
- Glass furniture
- Decorative glass

### Features & Benefits

- Superior opacity / coverage
- Excellent adhesion to glass substrates
- Excellent flow & levelling
- Fast drying
- Resistance to high moisture

### Availability

A vast range of colours.

Gloss Level 94%

*Please Note: Gloss ratio's will vary pending dry film Thickness, application technique and substrate.*

### Hardener

Medium Hardener 704 Hardener  
Slow Hardener 706 Hardener

### 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 metres<sup>2</sup>/Lt



### Mixing & Thinning

Following surface preparation (*ref. pg. 3*), stir thoroughly with a flat blade.

**Mix by Volume, 2 parts A to 1 part B**  
**leave to stand for 10 minutes.**

Add thinner 280 10-20% & re-mix, (*ref. pg. 2*).

**Glass Thinner** Thinners 280

*Please Note:* It is essential to use a min., of 10% of glass Thinners 280 to the Image Gloss, as it completes the glass adhesion process.



### Drying Times @ 25° C

**Dust Free** 15 - 20 mins  
**Print Free** 40 - 60 mins  
**Re-Coat** 2 - 3 hrs  
**Hard Dry** 6 - 7 days



### Pot Life @ 25° C

4 - 6 hours depending on humidity. Elevated climate will reduce pot-life.



### Solid Content - White

By Weight 65%


### Packaging



<b>Part A</b>	1Lt & 2Lt colours	4Lt	20Lt
<b>Part B</b>	1Lt	2Lt	4Lt 10Lt 20Lt

## 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>
<b>Suction Pot</b>	15 – 20%	1.4 – 1.6mm	40 – 55psi			
<b>Gravity Pot</b>	10 – 15%	1.4 – 1.6mm	40 – 50psi			
<b>Pressure Pot</b>	10%	1.4 – 1.6mm		15 – 30psi		
<b>Air Assisted Airless</b>	10%	9 – 11 thou			1000 – 1500psi	12 – 20:1
<b>Straight Airless</b>	<i>Not</i>	<i>Suggested</i>				

- **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

**White** = 25 seconds  
(pre-mixed with 704 Hardener)

## Colours

**Colour matching service:** available in a comprehensive range from various colour charts. Please keep in mind, that colours seen through glass will alter due to the affect of the clear “green” tint of glass. Colour variances will occur due to different grades and thickness of glass used.

**Colour matching is not available through glass due to the effects that the clear “green” tint will have on the final colour.**

**Metallic colours:** available using several different grades of metallic and pearl bases. The variations of these special effects are unlimited due to the unlimited possibilities of the base colours selected, along with variations in application techniques. Colour matching is not available with metallic colours.



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## Surface Preparation

### Step 1

#### Clean Glass

- a) Saturate a clean lint free cloth with Pylon Glass Cleaning Solution and thoroughly wash the glass panel.
- b) Use a dry clean lint free cloth to totally wipe off the solution, and ensure that there are no traces of grease, hand marks, dirt or any foreign contaminants.
- c) Once the solution is totally wiped off, and the surface is free of any contaminants, move straight to Step 2 without delay.

### Step 2

#### Glass Adhesion Promoter

Pylon's **Thinner 280** is a glass etching thinner, and **MUST** be used during this process (Step 2) to prime the surface and it is also essential to mix by minimum of 10% (Step 4) in Image Gloss colour, as it completes the glass adhesion process.

#### a) Application of Thinner 280

**Option 1 – Spray;** using a conventional spray gun, or with a spray bottle, apply a uniformed wet coat of Pylons Thinners 280. Leave the surface wet.

**Option 2 - Wipe;** use a clean lint free cloth, saturate the cloth with Pylon's Thinner 280. Apply liberally, keeping the thinner on the glass surface uniformed and wet. Leave the surface wet.

**b) Dry;** allow 3 – 5 minutes in a clean, dust free environment ensuring that the surface does not obtain any contaminants including hand marks. If contamination occurs re-do steps 1 & 2.

**c) Remove the excess solvent** gently with a dry clean lint free cloth using circular motions, paying special attention to the outside edges. Once the thinner appears to be evaporating, do a final wipe from one end to the other end of the panel making sure that all the solvent is removed. A slight hazy appearance should be left, and noticeable on the surface of the glass.

**IMPORTANT FACT:** Pylon's glass Thinners 280 **MUST** be used for this process as it has been specifically formulated for this system to create an etch to the glass in preparation for the Image Gloss top-coat.



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## Finishing Specifications

### Step 3

#### Mixing by Volume

#### Mixing Ratio 2 Parts A : 1 Part B

- a) Use a flat blade to thoroughly mix Part A and Part B separately.
- b) Thoroughly mix 2 Parts A (colour) to 1 Part B (hardener) using a flat blade. Only mix a sufficient amount of the coating to suit the job, due to the pot life. Let the mixture stand for 10 minutes.
- c) Add Thinner 280 as per "Application System Guide" (*ref. pg 2*). Mix thoroughly with a flat blade.

**Please Note: It is essential to use a minimum of 10% of Pylon's Thinners 280 to the Image Gloss colour, as it completes the glass adhesion process.**

### Step 4

#### Finish Coat

Apply the pre-mixed Image Gloss using a light coat, followed with 2 or 3 double header coats, allowing sufficient flash off time (15 – 20 seconds) between each pass, and for each pass change direction.

The use of this method will assist opacity, reduce the chance of runs, and is more time efficient.

### Step 5

#### Drying Process

**Air dry;** in a clean dust free environment for 2 – 4 hours depending on temperature, before handling. Once this time has passed air dry to cure, or for baking allow a total of 40 – 60 minutes to flash off, then bake up to 55° C for 1 – 2 hours.

**Baking;** allow the coating to flash off for a minimum of 40 – 60 minutes in a clean, dust free environment, at room temperature. Following the flash off time, carefully transfer the panel, without touching the painted surface, to the oven, and bake for 1 – 2 hours up to 60° C.



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### Application Tips

- Following the first coat, inspect the surface for any foreign objects, and if spotted, act quickly by using fine tweezers or a fine blade to remove particles.
- For large panels, widen the fan, and increase the material control. Test before proceeding to see if it suits your requirement.
- Pylon tinters are all lead-free, therefore bright colours will have a lower opacity / coverage than pastel shades. With this in mind, you may need to pay more attention to brighter colours by allowing an extra double header coat with sufficient time (20 seconds) to flash off, and changing direction each spray pass.

### Thinner Selection

**Glass Adhesion Thinner**

Thinner 280

Thinners 280 **MUST** be used for this system in both Step 2 and in Step 3, as it had been specifically formulated to create a bonding process that will optimise adhesion of the Image Gloss to the glass surface.

### Glazing Information

- When installing the painted glass panel, handle with care, do not touch or scratch the coated surface.
- Do not place hand marks or any other items that may contaminate the coated surface before installation.
- Use an approved neutral cure “mirror and glazing” silicone.
- When applying the silicone, all glazers should refer to the Standards Australia Glass and Glazing Handbook 1998 that states, “silicone be applied in vertical strips and never in blobs”, zigzag patterns should also be avoided.
- Do not use silicones that contain mould/mildew agents as this can react with Pylon’s metallic coating range.



### 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 175 microns,;
- Image Gloss should be tested on the selected substrate before proceeding;
- Image Gloss is not recommended for any surface that will be submerged in water;
- Image Gloss is for selected internal glass surfaces;
- Image Gloss colour should be chosen carefully considering as the colour of the paint will vary to the colour seen due to the clear “green” tint effect from the glass;
- Image Gloss should always be used behind the glass surface and therefore not be exposed;
- Image Gloss should only be applied when temperatures are between 30° C and 10° C.
- Image Gloss is a specialised industrial coating and should only be applied by experienced and competent tradespeople;
- the glass panel should always be installed on a flat surface.

### 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.