

## PU Glass Lacquer

Flexible polyurethane glass lacquer

A two pack, aliphatic, high solids, modified flexible polyurethane lacquer with excellent gloss and colour retention. Designed for application to glass.

### Intended Uses:

PU Glass Lacquer is used direct to glass as a primer/finish in virtually any colour. Excellent where weathering, chemical resistance, toughness, and UV stability are required.

PU Glass Lacquer is highly user friendly and forgiving for the inexperienced applicator and will provide both good corrosion protection and good performance properties.

### Properties:

- Stress & impact resistant.
- High build.
- Tough and durable with excellent scratch resistance.
- Excellent colour and gloss retention.
- Excellent obliteration.
- Non-chalking & non-yellowing.
- Excellent flexibility and durability.
- Resistant to mild chemicals, salt water, mineral and vegetable oils, paraffin's, aliphatic solvent, dilute industrial chemicals & aqueous solutions.

### Technical Data:

Colour	RAL, NCS, SABS and other colours matchable
Finish	High gloss
Density	1 Kg/ Litre
Volume Solids	65% +/-3%
Mix Ratio (Volume)	3 : 1
Typical Film Thickness	50 - 80µm DFT
Theoretical Coverage	13 m <sup>2</sup> / Litre @ 50µm DFT, allow for loss factors
Method of Application	Airless spray, conventional spray, roller, or brush
Flash Point	Mixed 25°C
Activator	PU Activator 90

### Drying Information:

	0°C	5°C	10°C	25°C	40°C	50°C
Touch Dry	-	6 hrs	3 hrs	1.5 hrs	1 hr	-
Hard Dry	-	16 hrs	8 hrs	4 hrs	2 hrs	-
<b>Overcoating Data – See Limitations</b>						
Substrate Temp.	0°C	5°C	10°C	25°C	40°C	50°C
Minimum	-	12 hrs	6 hrs	3 hrs	1.5 hrs	-
Maximum	Extended					
Cure Time	-	15 days	10 days	7 days	4 days	-

**Note:** Drying and overcoating times quoted are measured at 50µm DFT, at higher film thicknesses times will be increased.

\*See limitations.

### Wood Finish: Polyurethane Lacquers – Glass Coatings

## Certifications:

Consult a Specialized Coating Systems technical representative for details.

## Systems & Compatibility:

PU Glass Lacquer can be applied directly to correctly prepared glass.

It can be applied over a recommended priming system for added performance properties. Consult Specialized Coating Systems technical representative for coating system solutions.

## Surface Preparation:

The performance of this product will depend upon the degree of surface preparation. The surface to be coated must be cleaned and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.

Glass should be wiped clean with SpecClean Glass Cleaner prior to application of PU Glass Lacquer.

## Application:

Mixing	Material is supplied in two containers as a kit. Always mix a complete kit in the quantities supplied. Once mixed the product should be used within the pot life specified.		
	Stir the base component well with a flat-bottomed paddle or mechanical mixer until product is uniform. Continue stirring and add the entire contents of the activator container. Continue stirring until the mixture is homogeneous. Ensure that sufficient material be mixed so that the product can be applied within its use-able life.		
	The temperature of the mixed product should preferably be above 10°C, otherwise extra solvent may be required to obtain application viscosity.		
	After drying for 1 hour, product can be baked at 120°C for 10 minutes to accelerate curing and allow immediate handling.		
Mix Ratio	3 part(s) base : 1 part(s) PU Activator 90 by volume		
Pot Life	2 hours @ 20°C		
Airless Spray	Recommended	Tip range 11 – 17 Thou. Pressure at the tip should not be less than 140 bar (2000 PSI).	
Air Spray (Pressure Pot)	Recommended	Gun	Pressure Feed
		Fluid Tip	1.1mm to 1.6mm
Air Spray (Conventional)	Recommended	Gun	Gravity Feed
		Fluid Tip	1.1mm to 1.6mm
Brush/Roller	Suitable	Typically, 40 – 50µm can be achieved	
Thinner	Solvent XL	0 – 20% depending on application	
Cleaner	SA65 Thinner	For dry paint & equipment	
Work Stoppage	Do not allow material to remain in spray equipment after use, thoroughly flush and clean all equipment with <b>SA65 Thinner</b> . Once the kit has been mixed, they should not be re-sealed and it is advised that of prolonged stoppages, work recommences with freshly mixed units.		
Clean Up	Clean all equipment immediately after use with <b>SA65 Thinner</b> . It is advisable to periodically flush out spraying equipment during the course of the working day. Frequency of cleaning is dependant of upon the amount sprayed, temperature and elapsed time. Work strictly in accordance with the specified pot life of the material.		

## Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	5°C*	10°C	No lower limit
Maximum	40°C	45°C	85%

\* Or 3°C above dew point

## Limitations:

- Flow temperature, high relative humidity and condensation occurring during or immediately after application may result in a matt finish and inferior film.
- Premature exposure to water will cause colour change, especially in dark colours and at low temperatures.
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Specialized Coating Systems representative for specific recommendations.
- Apply in good weather. Temperature of the surface to be coated must be at least 3°C above the dew point. For best results bring the material temperature between 20 – 30°C, unless specifically instructed otherwise, prior to mixing with and application.
- Unmixed material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE section of this data sheet.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.
- Overcoating aged finishes/topcoats; although no maximum overcoating time is given in the data sheet, certain precautions must be taken prior to overcoating. Slight chalking will have occurred due to UV exposure and the surface will have been exposed to pollutants in the atmosphere. These surface contaminants must first be removed by washing with Hydrosolve and light abrasion using Scotchbrite pads followed by rinsing with drinking quality water.

## Pack Size:

4 Litre.

## Storage:

- Shelf Life:
  - Part A: 24 months minimum at 25°C from date of manufacture. Subject to inspection thereafter.
  - Part B: 12 months minimum at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.

## Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.