

## PU 421 Topcoat

High solids acrylic polyurethane topcoat

A two pack, high solids, UV resistant, re-coatable acrylic polyurethane finish with added light stabilizers.

### Intended Uses:

PU 421 Topcoat is used as a highly durable finish coat with excellent obliteration properties in pigmented form and provides excellent clarity in clear form.

PU 421 Topcoat can be applied directly to aluminium. All other surfaces must be suitably primed. PU 421 Topcoat provides the highest colour stability, excellent weathering resistance with high hardness and chemical resistance.

### PU 421 Topcoat be used in the following applications:

- Structural steel.
- Agricultural, earthmoving and construction equipment.
- General plant and equipment.
- Roof coatings.
- Floor coatings and line demarcations.
- Wall coatings.
- As a trafficable UV protective topcoat on self-levelling epoxies/polyurethanes.

### Properties:

- Unlimited recoat ability.
- Tough and durable.
- Excellent colour and gloss retention.
- 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	Clear & pigmented
Finish	High gloss
Density	1 Kg/ Litre
Mass Solids (Clear)	58% +/-13%
Volume Solids (Clear)	57% +/-3%
Volume Solids (White)	67% +/-3%
Mix Ratio (Volume)	4 : 1
Activator	PU Activator 90 AL XL
Typical Film Thickness	35 – 60µm DFT per coat (Total 70 – 120µm depending on specification)
Theoretical Coverage	9.5 m <sup>2</sup> / Litre @ 60µm DFT (On white), allow for loss factors
Method of Application	Airless spray, brush, roller, or conventional spray

## Drying Information:

	0°C	5°C	10°C	25°C	30°C	40°C
Touch Dry	-	-	-	1 hr	-	-
Hard Dry	-	-	-	4 hrs	-	-
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	10°C	25°C	30°C	40°C
Minimum	-	-	-	4 hrs	-	-
Maximum	N/A					

### Note:

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

\*See limitations.

## Certifications:

When used as part of an approved system, PU 421 Topcoat has the following certification:

- Salt spray test - 1440 hours.
- Controlled condensation 100% humidity test - 720 hours.
- Accelerated weathering – QUV Testing (i.e. Ultraviolet light alternating with condensation) – 1000 hours.

## Surface Preparation:

All surfaces to be coated must be dry, clean, and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with International Standard ISO 8504:2000 and SSPC-SP1.

### Primed Surfaces

PU 421 Topcoat should always be applied over the recommended priming/anti-corrosive system. The primed substrate should be dry and free from any contamination and PU 421 Topcoat must be applied with the coating intervals specified in the relevant product data sheet.

## 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 is mixed so that the product can be applied within its useable life.		
	Thinner should be added after mixing both components.		
Mix Ratio	4 part(s) base : 1 part(s) PU Activator 90 AL XL by volume		
Pot Life	1 hour @ 25°C		
Airless Spray	Recommended	Tip range 11 – 17 Thou. Pressure at the tip should not be less than 140 bar (2000 PSI).	
Air Spray (Conventional)	Recommended	Gun	Gravity Feed
		Fluid Tip	1.1mm to 1.6mm
Thinner	PU Thinner	0 – 20% depending on application	
Cleaner	SA65 Thinner	For dry paint & equipment	
Brush/Roller	Suitable	Typically, 40 – 50µm can be achieved	

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, after 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	3°C*	5°C	No lower limit
Maximum	45°C	45°C	85%

\* Or 3°C above dew point

### Limitations:

- This product is not suitable for immersion conditions.
- Low 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 System 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.

### Pack Size:

5 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.