



PERFORMANCE POLYURETHANE TOPCOAT

PRODUCT DESCRIPTION

Commercial Performance Coatings Performance Polyurethane Topcoat is a two component, non-yellowing, acrylic modified polyurethane with good weathering performance.

It is used for the protection of steel and other surfaces exposed to a chemical environment and weathering where a cost effective, durable gloss topcoat is required.

Utilising the SELEMIX[®] universal tinter system, Commercial Performance Coatings Performance Polyurethane Topcoat is available in a range of colours from the AS2700 and RAL Classic colour ranges as well as a range of gloss levels.

PRODUCTS

Performance PU Topcoat Mixed Colour		PPT
Hardeners		PUH20 Polyurethane Pack B Normal PUH30 Polyurethane Pack B Slow
Accelerator	<i>Optional Extra</i>	AA-5770 Protec Accelerator Additive
Reducers	<i>Cold conditions</i>	PUR10 Polyurethane Reducer Fast
	<i>Normal conditions</i>	PUR20 Polyurethane Reducer Normal
	<i>Hot conditions</i>	PUR30 Polyurethane Reducer Slow
	<i>Very Hot conditions</i>	PUR40 Polyurethane Reducer Extra Slow
Cleaners		971-9119 PROTEC [®] Metal Conditioner
		AA-6822 <i>Protec</i> Heavy Duty Wax & Grease Remover

SUBSTRATES & PREPARATION



Commercial Performance Coatings Performance Polyurethane Topcoat can be applied over the following primers:

- EPS EtchPro, VIN Vinyl Etch, EPO Epotec, ZPH High Build Primer, BAR Barrierprime, PAR Paraloc, Sigmaprime 200, Sigmacover 280, SLX Self Levelling Epoxy Primer.

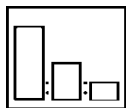


Surfaces showing heavy scale or surface rust should be treated with 971-9119 *Protec* Metal Conditioner. Heavily rusted surfaces should be abrasively blast cleaned.

Before and after any sanding operation, the substrate must be thoroughly degreased using AA-6822 *Protec* Heavy Duty Wax & Grease Remover to remove all traces of dirt, oil, grease, silicone, wax etc.

For other primer options please consult the PPG Commercial Performance Coatings Technical Team.

MIXING RATIO BY VOLUME



PRODUCT

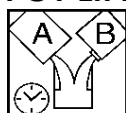
PPT Mixed Colour
Hardener
Reducer
AA-5770 Accelerator Additive

PARTS

4
1
Up to 30% (40% with Matt colours)
Up to 10% addition / Reduce thinning by 10%

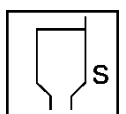
The addition of AA-5770 Accelerator can reduce the drying time up to 30% depending on the weather.

POT LIFE



Catalysed material is useable for up to 6 hours at 25°C

SPRAY VISCOSITY



CONVENTIONAL, HVLP	16 - 20 seconds (DIN 4) at 25°C
AIRLESS, AIR ASSISTED AIRLESS	20 - 30 seconds (DIN 4) at 25°C

SPRAYGUN



CONVENTIONAL, HVLP

SETUP

- | | |
|-----------|-----------------|
| • GRAVITY | 1.4 mm - 1.6 mm |
| • SUCTION | 1.6 mm - 1.8 mm |

SPRAY PRESSURE

- | | |
|----------------|--|
| • CONVENTIONAL | 2.0 - 2.5 bar (200 - 300 kPa, 30 - 36 psi) |
| • HVLP / RP | 2 - 3 bar |



AIRLESS, AIR ASSISTED AIRLESS

SETUP

- | | |
|--------------|---------------|
| • TIP | 0.007 - 0.015 |
| • PUMP RATIO | 32:1 |

SPRAY PRESSURE

- | | |
|------------------------|---------------|
| • AIRLESS | 100 - 140 bar |
| • AIR ASSISTED AIRLESS | 70 - 100 bar |

APPLICATION & FLASH OFF



CONVENTIONAL, HVLP	2 - 3 wet, even coats
AIRLESS, AIR ASSISTED AIRLESS	2 wet, even coats

Allow 10 - 15 minutes flash off between coats at 25°C

Note: Do not apply at temperatures less than 10°C, when the relative humidity exceeds 80% or if the surface temperature is within 3°C of the dew point.

DRYING TIMES



AIR DRY (25°C)

- TOUCH DRY: 30 minutes
- HARD DRY: 24 hours

BAKE (65°C)

40 minutes

Note: Drying times can vary dependent on temperature, flash off between coats, film builds and number of coats applied. Full cure will be achieved after 7 days.

RECOAT



Recoat within the pot life (6 hours) or after 24 hours. Recommendations are based on 25°C ambient temperature.

If recoating after 24 hours, the coating must be lightly abraded and degreased prior to painting. Aged films must be free of chalk and dirt (abraded and degreased) before recoating.

TOTAL DRY FILM BUILD

40 - 60 µm

TECHNICAL PARAMETERS

VOLUME SOLIDS (RFU)

32 - 38%, depending on colour

COVERAGE

5.3 - 9.5 metres squared per litre (m²/L)

RESISTANCE PROPERTIES

WEATHERING

Very Good

ABRASION

Good

SOLVENT

Good to splash and spillage for common solvents

CHEMICAL

Good to splash and spillage for mild chemicals

HEAT

Satisfactory up to 120°C Dry Heat

IMMERSION

Not recommended

EQUIPMENT CLEANING

After use, clean all equipment thoroughly with cleaning solvent or thinner.

HEALTH AND SAFETY

Please refer to Safety Data Sheets (SDS) for full Health and Safety details, as well as product can labels.

Hardeners and activated products contain isocyanate and therefore particular safety precautions must be taken; please refer to SDS for full health and safety details.

This product is for professional use only.
The information given in this sheet is for guidance only. Any person using the product without first making further inquiries as to the suitability of the product for the intended purpose does so at his or her own risk and we can accept no liability for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of such use. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.
Drying times quoted are average times at 25°C/77°F. Film thickness, humidity and shop temperature can all affect drying times.

PPG Industries Australia Pty Ltd, 14 McNaughton Rd

Clayton, VIC 3168 Australia

EMERGENCY RESPONSE NUMBER, Australia: 1800 883 254

PPG Industries New Zealand Pty Ltd, 5 Vestey Dr, Mt Wellington

Auckland, New Zealand

EMERGENCY RESPONSE NUMBER, New Zealand: 0800 000 096

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