



PU-601 Barthane Polyurethane Camouflage Colours AP-S0154/9 Near Infra Red Reflecting

PRODUCT DESCRIPTION

A two pack non-yellowing polyurethane finish that provides an extremely tough, hard, durable and chemical resistant coating. For camouflage purposes it is used in conjunction with Barrier EX-408 Zinc Phosphate Epoxy Primer NIRR Biege 408-5208. PU-601 Barthane colours are designed to be in compliance with AP-S0154/9 and EX-408 Zinc Phosphate Epoxy Primer to AP-S0154/6.

SUBSTRATES & PREPARATION



Substrates should be prepared in accordance with AP-S0154 specifications. Specifications can be found at: <https://vs.csiro.au/apas/>

As per AP-S0154, ferrous and non-ferrous substrates must then be primed with 408-5208 EX-408 NIRR Biege prior to application of the PU-601 Barthane topcoat. Refer to the 408-5208 EX-408 NIRR Biege Technical Data Sheet for full details. For other substrate types contact a PPG Representative for advice.

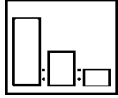


Before and after any sanding operation, the substrate must be thoroughly degreased using AA-6822 *Protec* Heavy Duty Wax & Grease Remover to remove all traces of dirt, oil, grease, silicone, wax etc. Use spray/pump bottles to apply cleaning solvent to avoid contamination.

PRODUCTS

PU-601 Camouflage Colours Pack A		601-1208 NIRR Cam Green US Fed 595 # 34088 601-5261 NIRR Cam Brown US Fed 595 # 30219 601-5310 NIRR Cam Pilbara Brown US Fed 595 # 30109 601-7663 NIRR Cam Black US Fed 595 # 37038 601-8357 White (Interior) US Fed 595 # 37875
PU-601 Pack B		601-9074 Barthane Hardener
Reducers	<i>Normal conditions</i>	145 Barthane Reducer 195 Barthane Electrostatic Reducer
	<i>Hot conditions</i>	178 Barthane Extra Slow Reducer
	<i>For Brushing</i>	PUR20 Polyurethane Reducer Normal

MIXING RATIO BY VOLUME



PRODUCT

PU-601 Pack A

601-9074

Reducer

PARTS

3

1

20-30%

30-40%

30-40%

Green and Brown, Single colour application

Black, Single colour application

Brown, Green and Black, DPP application

Refer to 601 Reducer Guide for suggested reducer selection for application temperature.

Black may require extra thinning to lower the viscosity depending on conditions.

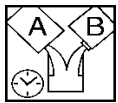
Mix Pack A and Pack B. Stir thoroughly.

Add reducer and stir thoroughly.

VISCOSITY (RFU)

17-19 seconds DIN 4 Cup at 25C

POTLIFE



Catalysed material is useable for up to 4 hours at 25°C

SPRAYGUN



CONVENTIONAL

SETUP

- GRAVITY 1.4 mm - 1.6 mm
- SUCTION 1.4 mm - 1.8 mm
- CAMOUFLAGE 1.2 mm SATA MINIJET RP

SPRAY PRESSURE

- CONVENTIONAL 1.0 - 3.0 bar (150 - 300 kPa, 22 - 44 psi)

PRESSURE POT / DOUBLE DIAPHRAGM (GREEN ONLY)

- SATA 1000K 1.1 mm - 1.3 mm
- SATA 3000K 1.1 mm - 1.3 mm

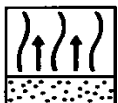
APPLICATION & FLASH OFF



SPRAY:

Recommended application conditions :
 Spray Booth Temperature 20-28°C
 Spray Booth Humidity 45-70% RH

- FOR ALL OF THE AP-S0154/9 DISRUPTIVE PAINT PATTERN COLOURS, APPLY 1 MEDIUM + 1 FULL COAT TO DRY FILM THICKNESS 35 - 50 MICRONS.



Allow 30 - 45 minutes flash off between coats at 25°C (dependent on film build). Correct flash off time will allow the entire surface to go an eggshell appearance, after this time apply the second, full coat.

BRUSH APPLICATION:

No thinning is required, although up to 10% PUR20 Polyurethane Reducer Normal may be added for easier brushing on large areas.

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SPECIAL NOTE FOR 0154/9 SYSTEMS:

When applying coatings for AP-S0154/9 paint systems it is necessary to apply the NIRR Biege primer to the whole vehicle or piece of equipment, then topcoat with NIRR Camouflage Brown to achieve the NIRR requirement. The disruptive paint pattern is then achieved by application of the other NIRR camouflage colours over the top of the Camouflage Brown.

Also, the NIRR Camouflage Black when applied may have a 'greenish' appearance on the edges where the paint film is thin. This effect is because of the very specialized pigmentation needed to achieve the high Infra Red reflection required of the product. If the film build is kept even this effect is minimized.

FILM BUILDS AND COLOUR SEQUENCE



**AP-S0154/9
NIRR CARC COATING**

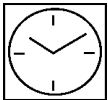


	601-5261, 601-1208
35-50um	or 601-7663
35-50um	601-5261
50-75um	408-5208

Total Film Build 120-175um Full DPP coating

NIRR BROWN MUST BE THE FIRST TOPCOAT OVER THE BEIGE PRIMER

DRYING TIMES



AIR DRY (25°C)

- SURFACE DRY: 1 hour
- HARD DRY: 8 hours

Note: Drying times will vary dependent on temperature, flash off between coats and the number of coats used.

FORCE DRY

Please contact your local PPG Representative to discuss baking times and temperatures, as these vary depending on metal thickness and oven performance. Typical bake requirement is 45 minutes at 60°C (metal temperature).

Coating becomes fully cured after seven days.

RECOAT



Can be re-coated after a minimum of 16 hours.

After maximum recoat time of 72 hours at 25°C, a thorough sand with mechanical means is necessary before re-coating. Use P240-320 grade abrasive.

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. Use spray/pump bottles to apply cleaning solvent to avoid contamination.

TECHNICAL PARAMETERS

PRODUCT:	Volume Sol.	MIXED	
		DFT	WFT
601-5261 NIRRR Cam Brown US Fed 595 # 30219	38.8%	35-50um	100-140um
601-1208 NIRRR Cam Green US Fed 595 # 34088	39.9%	35-50um	100-140um
601-5310 NIRRR Cam Pilbara Brown US Fed 595 #30109	39.9%	35-50um	100-140um
601-7663 NIRRR Cam Black US Fed 595 # 37038	42.0%	35-50um	95-135um
601-8357 White (Interior) US Fed 595 # 37875	42.6%	35-50um	95-135um
601-9074 Barthane Hardener	70.7%		

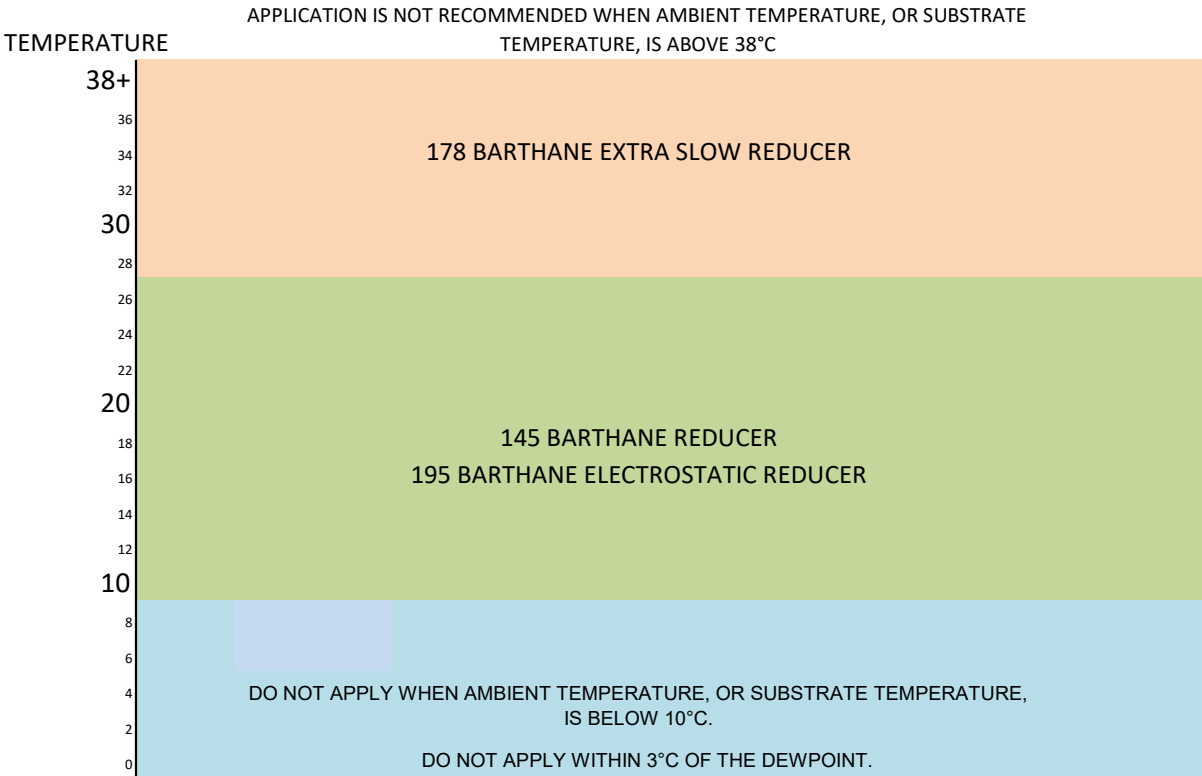
COVERAGE (RFU)

AP-S0154/9 12.0 - 12.7 metres squared per litre (m²/L) depending on colour

EQUIPMENT CLEANING

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

601 BARTHANE REDUCER GUIDE



This chart is provided as an approximate guide to when the different thinners should be used. Differences in application technique and the size of the components being painted will influence the optimum thinner choice.

HEALTH AND SAFETY

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

PPG 2K PU 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.

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