



PU-601 Barthane Polyurethane Camouflage Colours AP-S0154/3 Conventional Infra Red

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 408-6098. PU-601 Barthane colours are designed to be in compliance with AP-S0154/3 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 408-6098 EX-408 GREY prior to application of the PU-601 Barthane topcoat. Refer to the 408-6098 EX-408 GREY Technical Data Sheet for full details. For other substrate types contact a PROTEC® Technical Representative for advice.

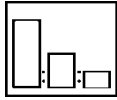


Before and after any sanding operation, the substrate must be thoroughly degreased using AA-6822 Protec Heavy Duty Wax & Grease Remover to remove all traces of dirt, oil, grease, silicone, wax etc. Use spray/pump bottles to apply cleaning solvent to avoid contamination.

PRODUCTS

PU-601 Camouflage Colours Pack A		601-1166 Camouflage Green US Fed 595 # 34088 601-5265 Camouflage Brown US Fed 595 # 30219 601-7165 Black US Fed 595 # 37038 601-8357 White (Interior) US Fed 595 # 37875
PU-601 Pack B		601-9074 Barthane Hardener
Potlife Extender		636-9419 Barrier Potlife Extender
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

Green, Brown 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.

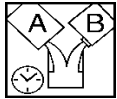
Mix Pack A and Pack B. Stir thoroughly.

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

In temperatures greater than 32°C, 636-9419 Barrier Potlife Extender can be added to the mixed paint to increase potlife. At this temperature or above, mix 636-9419 at 40 parts to 60 parts by weight with reducer, before thinning the mixed PU-601 Barthane. Use of the 178 Barthane Reducer Extra Slow will also improve the open time of the film at high temperatures. 636-9419 Barrier Potlife Extender and mixtures of this with reducer must be stored in plastic containers as the 636-9419 Barrier Potlife Extender will react with metal.

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

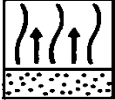
APPLICATION & FLASH OFF



SPRAY:

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

- FOR ALL OF THE AP-S0154/3 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.

When applying coatings for AP-S0154/3 paint systems it is necessary to apply the primer to the whole vehicle or piece of equipment, then topcoat with the 601 Barthane PU topcoats in any order to achieve the disruptive paint pattern. This is usually done by applying one of the colours to the full vehicle and then using the two remaining colours to achieve the disruptive paint pattern.

FILM BUILDS AND COLOUR SEQUENCE



AP-S0154/3 CONVENTIONAL CARC COATING



	601-1166, 601-5265
35-50um	or 601-7165
35-50um	601-1166
50-75um	408-6098

Total Film Build 120-175um Full DPP coating

ORDER OF DISRUPTIVE PAINT PATTERN IS NOT CRITICAL (REFER ENG. DRAWING)
 GREEN USUALLY APPLIED FIRST, BUT ORDER OF DISRUPTIVE PAINT PATTERN IS NOT CRITICAL

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

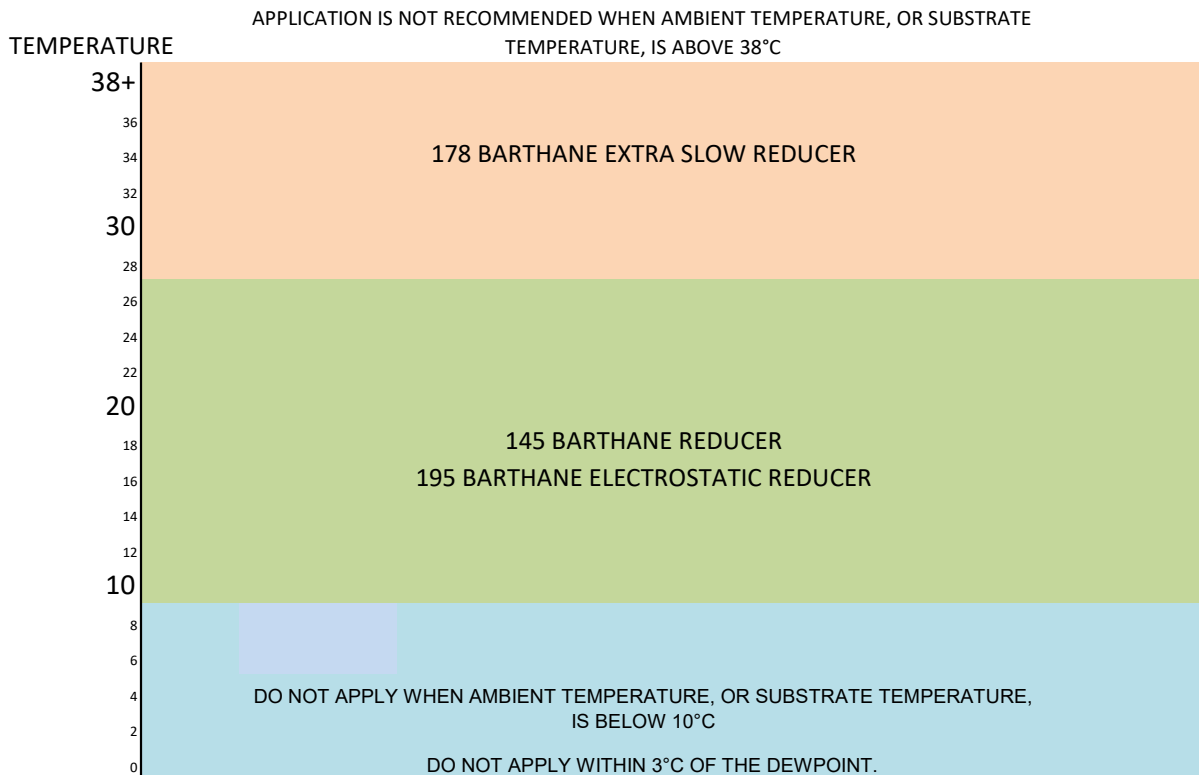
VOLUME SOLIDS

601-1166 Camouflage Green US Fed 595 # 34088	39.9%
601-5265 Camouflage Brown US Fed 595 # 30219	39.0%
601-7165 Black US Fed 595 # 37038	37.2%
601-8357 White (Interior) US Fed 595 # 37875	42.6%
601-9074 Barthane Hardener	70.7%

COVERAGE (RFU)

APAS 0154/3 11.7 - 12.7 metres squared per litre (m²/L) depending on colour

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.

**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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