



PU-601 Barthane Polyurethane Enamel Camouflage Colours Non-APAS Miscellaneous

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 either Barrier EX-408 Zinc Phosphate Epoxy Primer Grey 408-6916 or Barrier EX-408 Zinc Phosphate Epoxy Primer NIRR Biege 408-5208. PU-601 Barthane colours listed in this document are designed to be in compliance with APAS 0154 and APAS 0502, but are not listed in these specifications as they are not used by the ADF. The PU-601 Barthane colours listed in this document may also meet the cured film requirements of the following specifications: MIL-DTL-53039, MIL-C-46168, MIL-PRF-85285. Contact your PPG Defence Coatings representative for further information.

SUBSTRATES & PREPARATION



Preparation and cleaning of substrates should be prepared in accordance with the necessary engineering drawing specifications.

Typical preparation and cleaning requirements are:



Ferrous metals – Phosphating or abrasive blast cleaning.

Non-ferrous metals – Conversion coating, abrasive blast cleaning or solvent clean and abrasion, followed by repeated solvent cleaning.

Previously painted surfaces – Solvent cleaning and abrasion of the previous coating, followed by repeated solvent cleaning.

For other substrate types contact a PROTEC® Technical Representative for advice.

Refer to the 408-6098 Grey or 408-5208 EX-408 NIRR Biege Technical Data Sheets for full primer application details.

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.

PRODUCTS

PU-601 Camouflage Colours Pack A
Use 408-6916 Grey

Conventional Camouflage / Interior Colours
601-8249 Interior White US Fed 595 # 17925

PU-601 Camouflage Colours Pack A
Use 408-5208 NIRR Biege

Near Infra Red Reflecting (NIRR) Colours
601-1240 NIRR NZ Army Green 9FKE (High NIRR)
601-1335 NIRR Green US Fed 595 # 34094 (High NIRR)
601-5304 NIRR Light Tan US Fed 595 # 30324 (High NIRR)
601-5356 NIRR Light Tan US Fed 595 # 30324 (Mid NIRR)
601-5385 NIRR Desert Tan US Fed 595 # 33446 (Mid NIRR)

PU-601 Pack B

601-9074 Barthane Hardener

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Potlife Extender

636-9419 Barrier Potlife Extender

Reducers

145 Barthane Reducer

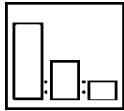
178 Barthane Reducer Extra Slow

195 Barthane Reducer Electrostatic

For Brushing

PUR20 Polyurethane Reducer Normal

MIXING RATIO BY VOLUME



PRODUCT

PARTS

PU-601 Pack A

3

601-9074

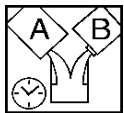
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Reducer

25-30%

Mix Pack A and Pack B. Stir thoroughly and allow 10 minutes induction time.
Add reducer and stir thoroughly.

POTLIFE



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

In temperatures greater than 25°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.

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 3.5 - 4.5 bar (350 - 450 kPa, 45 - 65 psi)

APPLICATION & FLASH OFF



SPRAY:

- APPLY 1 MEDIUM + 1 FULL COAT TO DRY FILM THICKNESS 35 - 50 MICRONS. UNLESS ENGINEERING DRAWING REQUIRES OTHERWISE.



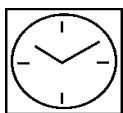
Allow 10 - 15 minutes flash off between coats at 25°C (dependent on film build). Correct flash off time will allow the entire surface to go an eggshell appearance, after this time apply the second, full coat.

BRUSH APPLICATION:

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



DRYING TIMES



AIR DRY ONLY (25°C)

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

Coating becomes fully cured after seven days.

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

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 followed by full re-priming.

TECHNICAL PARAMETERS

VOLUME SOLIDS

601-8249 Interior White US Fed 595 # 17925	41.4%
601-1240 NIRR NZ Army Green 9FKE (High NIRR)	39.1%
601-1335 NIRR Green US Fed 595 # 34094 (High NIRR)	39.3%
601-5304 NIRR Light Tan US Fed 595 # 30324 (High NIRR)	39.8%
601-5356 NIRR Light Tan US Fed 595 # 30324 (Mid NIRR)	40.3%
601-5385 NIRR Desert Tan US Fed 595 # 33446 (Mid NIRR)	40.6%
601-9074 Barthane Hardener	70.3%

COVERAGE (RFU)

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

EQUIPMENT CLEANING

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

HEALTH AND SAFETY

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

Protec 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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