

02Y040C Quick Dry Yellow Epoxy Primer

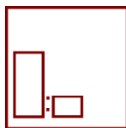
TECHNICAL DATA SHEET

Product Description

02Y040C quick dry yellow epoxy primer is a high solids, chemically cured, strontium chromated primer which provides corrosion, chemical and solvent resistance. It is compatible with MIL-PRF-85285 polyurethane topcoats for protection of military aircraft exteriors.

- Fast dry
- High solids
- Excellent adhesion
- Corrosion inhibiting
- Low density
- Resistant to immersion in hydraulic fluids, lubricating oils, phosphate ester based hydraulic fluids, Skydrol® hydraulic fluid and distilled water

Components



Mix ratio (by volume):

- | | |
|-----------------------------------|---------|
| • 02Y040C (base component) | 3 parts |
| • 02Y040CCAT (catalyst component) | 1 part |

Specifications



02Y040C is qualified to:

- | | |
|--------------------------------------|-------------------------------------|
| • MCS 9053 Type 1 Class 1
Grade 1 | • MIL-PRF-23377K Type I Class
C2 |
|--------------------------------------|-------------------------------------|

Note: PPG Aerospace recommends you check the most recent specification QPLs for updated information.

Product Compatibility:

02Y040C is compatible with the following topcoat specifications:

- | | |
|-----------------|-----------------|
| • DMS 2115 | • MIL-PRF-85285 |
| • MIL-PRF-22750 | • MMS 420 |

02Y040C Quick Dry Yellow Epoxy Primer

Surface Preparation and Pretreatments



02Y040C primer can be applied over clean, dry, intact aluminum and composites surfaces. Aluminum surfaces shall be treated with materials conforming to MIL-C-5541 or equivalent.

Instructions for Use



Mixing Instructions:

Stir or shake the base component to ensure any pigment, which may have settled on the bottom of the can, has been fully incorporated into the base. Do not stir or shake the base component longer than 5 minutes. Slowly add the one volume of catalyst to three volumes base component. Mix by hand stirring, paint shaker or mechanical mixing to ensure the base/catalyst mixture is homogeneous. Do not shake or mechanically mix material for longer than 10 minutes. Constant agitation of the material during spray application is recommended.

Note: It is important to condition the paint for 24 hours prior to mixing by placing all materials in the shop or hangar, with ambient temperatures between 13° and 35°C (55° to 95°F). The minimum temperature of the paint components should be 13°C (55°F) prior to mixing.



Induction Time:

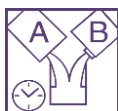
Not required for standard application, however induction time of 30 minutes is recommended for applications requiring faster dry times, such as touch up or cold weather.



Viscosity: (23°C/73°F)

- #4 Ford cup 40 seconds maximum

Note: Viscosities quoted are the typical values obtained when using specified mix ratio.



Pot Life:

4 hours @ 21 - 25°C (70 - 77°F)

02Y040C Quick Dry Yellow Epoxy Primer

Equipment Cleaning:

Clean spray equipment as soon as possible after use. Flush spray equipment with IS-237 (MIL-T-81772 Type II) or Desoclean™ 45 high performance solvent cleaner. Once material has cured, use an approved chemical paint removal system to strip primer from parts and equipment.

Physical Properties (product)



Color Yellow



Gloss Not Applicable



Dry Times	21 - 27°C (70 - 80°F)
Tack Free	3 hours maximum
Dry to Topcoat	3 - 24 hours
Dry Hard	8 hours maximum
Full Cure	14 days maximum

Note: Dry times are based on film thickness. Dry times above were established at room (ambient) temperatures, 75° ± 5°F and 50% ± 10% relative humidity. After 8 hours of cure, solvent wipe the entire primed surface with IS- 297 Primer Re-activator, Acetone or equivalent. After 24 hours of cure, scuff sand the entire primed surface, followed by a solvent wipe.

For dry to stack conditions only: Allow a minimum of 15 minutes flash off time at ambient temperatures prior to exposing painted parts to high temperatures. Complete testing should be done prior to use. Below are suggested starting points. Other variables may affect these cure schedules.

02Y040C Quick Dry Yellow Epoxy Primer

Temperature	Time
49°C (120°F)	45 minutes
60°C (140°F)	30 minutes
71°C (160°F)	20 minutes
82°C (180°F)	15 minutes

Note: Ambient temperatures are defined as 70° ± 10°F and 50% ± 10% relative humidity.



VOC:

Mixed, ready to use VOC (EPA method 24)	333 grams/liter
Base Component	398 grams/liter
Catalyst Component	190 grams/liter



Flash Point closed cup:

Base Component	8°C (46°F)
Catalyst Component	22°C (72°F)

Shelf Life:

12 months from date of manufacture for most OEM specifications. Consult the specification to verify shelf life requirements

12 months from date of manufacture for PRC-DeSoto Standard

Note: Shelf life is provided for original, unopened containers

Note: The application and performance property values above are typical for the material, but not intended for use in specifications or for acceptance inspection criteria because of variations in testing methods, conditions and configurations.

Storage Recommendations



Inspect the condition of the container to ensure compliance. The material should be stored at temperatures between 5°C to 35°C (41°F to 95°F) to ensure shelf life.

Note: When procuring to a qualified material specification, follow those storage instructions.



02Y040C Quick Dry Yellow Epoxy Primer

Health Precautions

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Safety Data Sheet (SDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An SDS is available on request. Avoid overexposure. Obtain medical care in case of extreme overexposure.

For industrial use only. Keep away from children.

Additional information can be found at: www.ppgaerospace.com

For sales and ordering information call the local PPG office at the numbers listed below:

Asia Pacific

ASC – Australia

Tel 61 (3) 9335 1557
Fax 61 (3) 9335 3490

ASC – Japan

Tel 81 561 35 5200
Fax 81 561 35 5201

ASC – South East Asia

Tel 65 6861 1119
Fax 65 6861 6162

ASC – Suzhou

Tel (86-512) 6661 5858
Fax (86-512) 6661 6868

ASC – Tianjin

Tel (86-022) 2482 8625
Fax (86-022) 2482 8600

Americas

1 (818) 362-6711 or 1-800-AEROMIX

Europe and Middle East

ASC – Central Europe

Tel 49 (40) 742 193 10
Fax 49 (40) 742 139 69

ASC – Middle East & India

Tel (971) 4 883 9666
Fax (971) 4 883 9665

ASC – North Europe

Tel 44 (0) 1388 770222
Fax 44 (0) 1388 770288

ASC – South Europe

Tel 33 (0) 235 53 43 71
Fax 33 (0) 235 53 54 44

Skydrol is a trademark of Solutia, Inc.

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

PRC-DeSoto International, Inc.
12780 San Fernando Road
Sylmar, CA 91342
www.ppgaerospace.com

Issue Date: 5/16
Lit: 4466