

PR 205 low VOC epoxy primer

Description

PR 205 is a two-pack, ambient curing, low VOC, epoxy primer developed for the internal and external protection of aircraft, and for resistance to microbial attack in fuel tanks. The base component contains strontium chromate for long term corrosion inhibition. For details of schemes incorporating PR 205 please consult the relevant Scheme Sheets.

Fully cured PR 205 possesses excellent fluid resistance and adhesion characteristics.

PR 205 is approved to the following specifications:
AVN 7-003, MEP 10-059
BSX33B, MSRR9064
AIMS 04-04-001/003 AIMS 04-04-004

For further information on specification release requirements, please contact PRC-DeSoto International.

Application properties (typical)

(At 23°C/50%RH unless otherwise stated)

Product code numbers

| | |
|-----------|-----------------------|
| Base | PR 205 (CA 7003) |
| Activator | ACT 205 (CA 7003B) |

Flash points (Abel closed cup)

| | |
|---------|-------|
| PR 205 | -17°C |
| ACT 205 | 23°C |

Mix ratio, by volume

| | |
|----------------|-----|
| Base:activator | 3:1 |
|----------------|-----|

Volatile organic compound (VOC)

mixed ready for use

| | |
|---------------|--------------|
| (ASTM-D 3960) | <350 g/litre |
|---------------|--------------|

Viscosity

Do not add thinner of any type

Coverage, mixed ready for use, theoretical value, no loss

| | |
|-----------------------------|--------------------------|
| @ 15 microns film thickness | 42 m ² /litre |
|-----------------------------|--------------------------|

Pot life

2 hours

Dust free

2 hours

Dry to mask

6 hours

Dry to overcoat

4-48 hours

Full cure

7 days

PR 205 is compatible with all types of spray equipment. For details on the application parameters please consult the relevant Scheme Sheets, or call PRC-DeSoto International.

| | |
|--------|--------|
| Colour | Yellow |
|--------|--------|

Performance properties (typical)

When tested with CA 8000 over sulpho-chromic pickle pre-treatment PR 205 will pass or exceed the requirements of AIMS 04-04-001, e.g.

Dry adhesion

| | |
|------------------------|---------|
| Cross hatch (ISO 2409) | Grade O |
|------------------------|---------|

Flexibility

| | |
|---------------------------|------|
| Mandrel @ 23°C (ISO 1519) | 2 mm |
|---------------------------|------|

Water resistance

| | |
|-----------------------------|---------|
| 336 hours @ 23°C (ISO 1521) | |
| Cross hatch (ISO 2409) | Grade 1 |

Resistance to fluids

| | |
|------------------------------|--------|
| Phosphate ester (Type IV) | |
| 1000 hours @ 70°C (ISO 2812) | |
| Scratch hardness, (ISO 1518) | 1200 g |

Corrosion resistance, creep

| | |
|-----------------------|---------|
| Alternating immersion | |
| 1500 hours (EN 3212) | 1.25 mm |

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

Storage life

The storage life of PR 205 is twenty four months from date of manufacture when stored at temperatures between 0°C and 35°C in the original unopened containers. Partly used containers must be re-sealed immediately after use. Once opened, activator ACT 205 must be used within two months.

DeSoto® Aerospace Coatings

PRC-DeSoto Europe, Ltd.
Darlington Road, Shildon
County Durham
DL4 2QP, England
Tel +44(0)1388 772541 Fax +44(0)1388 774373
email info.europe@prc-desoto.com

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Health precautions

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

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.