

## CA 40000 high durability polyurethane finish

### Description

CA 40000 is a two-pack, ambient curing, polyurethane finish possessing excellent durability with maximum gloss and colour retention, and with excellent chemical resistance and adhesion characteristics. A wash primer/polyurethane primer scheme, P99/PAC 33, can be used where chemical pre-treatment is not chosen. For detailed information about the various primer systems please consult the CA 40000 Scheme Sheets.

CA 40000 polyurethane finish is qualified to the following OEM specifications:

TN A.007.10028  
TN A.007.10113  
AVN 7-004  
BS2X34A

CA 40000 also meets the requirements of the following specification:  
AIMS 04-04-012

For further specification release information, please call PRC-DeSoto International.

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

@ 50 microns dry film thickness 6 m<sup>2</sup>/litre

### Viscosity

Cup	Airspray	Air Assisted	HVLP
Electrostatic	Airless		
BSB3	24-26 sec	26-28 sec	26-28 sec
AFNOR 2.5	40-45 sec	45-50 sec	45-50 sec
DIN 4	12-13 sec	13-14 sec	13-14 sec
ISO 3mm	30-37 sec	37-44 sec	37-44 sec

### Pot life

0576/9000 thinners 3-4 hrs  
0945/9000 accelerator thinners 2 hrs

### Dry to mask

0576/9000 thinners 10-12 hrs  
0945/9000 accelerator thinners 3-4 hrs

### Dry to fly

(48 hrs)

### Full cure

7 days

CA 40000 is compatible with all types of spray equipment. For details on the application parameters please consult the CA 40000 Scheme Sheets or call PRC-DeSoto International.

Colours - Available in extensive range from Quick Response Service.

### Application properties (typical)

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

#### Product code numbers

Base	5690/—
Activator	0796/9000
Thinner	0576/9000
Accelerator thinner	0945/9000
High temperature thinner	0559/9000

#### Flash points, (Abel closed cup)

5690/—	-17 to +21°C
0796/9000	23°C
0576/9000	-7°C
0945/9000	-7°C
0559/9000	-7°C

#### Mixing ratio, by volume

Base:activator:thinner 1:1:1

Volatile organic compound (VOC),  
mixed ready for use  
(ASTM-D 3960)

645 g/litre

### Performance properties (typical)

When tested with P99 and PAC 33 primers over sulpho-chromic pickle pre-treatment CA 40000 will pass or exceed the requirements of AIMS 04-04-012, 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)

336 hours @ 70°C (ISO 2812)

Scratch hardness (ISO 1518) 1200 g

### DeSoto® Aerospace Coatings

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A PPG Industries Company

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Filiform corrosion resistance, creep	
1000 hours (EN 3665)	2 mm
Specular gloss level, (60° head)	90 units
Gloss retention, (60° head)	
3000 hours UVB 313 (ASTMG 53)	88 units

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**Note:** The application and performance property values above 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 CA 40000 is twenty four months from date of manufacture when stored at temperatures between 5°C and 35°C in the original unopened containers. Partly used containers must be re-sealed immediately after use. Once opened, activator 0796/9000 must be used within two months.

### 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 over exposure. 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.