Ardrox® AV40

HEAT RESISTANT, WATER DISPLACING, CORROSION INHIBITING COMPOUND

1 Description

Ardrox® AV40 is applied as a coating to protect metals commonly used in airframe structures and in aerospace components from corrosion. AV 40 is designed for use in areas of the aircraft exposed to elevated temperatures. Typical applications include engine components, pylons and cowlings.

AV 40 will withstand continuous temperatures up to 150°C (302°F) and short term exposure to temperatures up to 210°C (410°F).

AV 40 is colourless and can be applied to aircraft exterior surfaces exposed to high temperatures, for example adjacent to auxiliary power unit (APU) exhaust systems where hot gases are expelled.

Approvals

Ask your Chemetall representative for a complete list of approvals. Detailed information is available on the Chemetall website at: www.chemetall.com

2 Properties

Property	Typical Value
Flash Point	28 °C / 82 °F minimum
Non-volatile Content	45 % by weight minimum
Density at 23 °C (73 °F)	890 kg/m³
Coverage	9,5 m²/L at 40 µm
Application Temperature	15 to 30 °C / 40 to 85 °F
Storage Temperature	4 to 38 °C / 40 to 100 °F
Shelf Life	2 years from date of manufacture
Colour	Transparent, colorless
Film Appearance	Tack-free, firm film
Specific Film Weight	40 g/m²
Dry Film Thickness	40 to 60 µm
Drying Time at Ambient Temperature	Approx. 60 minutes

These are typical values only and do not constitute a specification.

3 Application

Ardrox® AV40 can be applied by dipping, brushing or spraying. For maximum penetration capability and the most effective corrosion inhibiting performance, spray application is recommended.

Ardrox® AV40 can be sprayed using either the specifically designed ACS-System (airmix application equipment) or the AAS-System (airless application equipment).

The coating should be applied at 60 to 100 µm / 2,4 – 4 mils wet thickness.

Movable parts should be masked before treatment. If Ardrox® AV40 spray control or masking of movable components is not possible, then an alternative soft waxy film CIC, such as Ardrox® AV25 should be used.

Operating instructions and recommendations for using spray equipment are given in the CIC manual which is available at the local Chemetall Sales Office.

4 Surface Preparation

Surfaces to be treated must be clean and dry. Contaminations (e.g. greases, oils or moulding agents) should be removed by means of a degreasing / solvent cleaning process (e.g. Ardrox® 5502).

5 Removal

Ardrox® AV40 can be removed with cleaning solvents (e.g. Ardrox® AV980, Ardrox 6135T).

6 Safety Guidance

For safety precautions and information on the safe use of this product please see the relevant Material Safety Data Sheet for Ardrox® AV40.

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