Ardrox® AV35S

FLUORESCENT, SUPER PENETRATING, WATER DISPLACING, HEAVY-DUTY, CORROSION INHIBITING COMPOUND FOR HYBRID AIRCRAFT STRUCTURES

1 Description

Ardrox® AV35S shows fluorescent characteristics which ensure an excellent application control under UV light.
Applied as a coating to protect metals and hybrid structures commonly used in airframe structures and in aerospace components from corrosion. Ardrox® AV35S can be used in all areas of the airframe on painted and unpainted surfaces. It combines good penetration properties with long-term corrosion inhibiting characteristics.

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
Non-volatile Content	58 % by weight minimum
Coverage	13 m²/L at 35 µm
Film Appearance	Tack-free, firm film, fluorescent
Specific Film Weight	35 g/m^2
Dry Film Thickness	35 to 50 µm
Drying Time at Ambient Temperature	Approx. 120 minutes

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

3 Application

Ardrox® AV35S can be applied by dipping, brushing or spraying. For maximum penetration capability and the most effective corrosion inhibiting performance, spray application is recommended. For the spray application either the specifically designed ACS-System (airmix application equipment), or the AAS-System (airless application equipment) can be used.

The coating should be applied at ambient temperature 70 to 120 µm wet thickness.
The application and the film appearance on black composites or complicated structures like frames, stingers or clips can be checked under UV light. Due to the fluorescent material characteristics, film discontinuities can be detected easily and corrected afterwards. Please note that the fluorescent effect is sensitive to daylight exposure.

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For UV-light inspection it is recommended to use Chemetall's Xmor UVee Dual/Twin high-intensity UV lamps. The component surfaces should be inspected under UVA of minimum output of 1000 µW/cm² (at distance of 38 cm) and peak wavelength of 365 nanometers. Personal protective equipment (PPE) should be worn during the inspection of the applied coating too.

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® AV35S can be removed with cleaning solvents (e.g. Ardrox® AV980, Ardrox® 5502, Ardrox® 5503).

6 Storage, shelf life and disposal

Please refer to the corresponding Material Safety Data Sheets for details on shelf life, storage, and disposal.

7 Labor and environmental protection

Before operating the process described it is important that this complete document, together with any relevant Safety Data sheets, be read and understood.
All local and national regulations on the transport, storage, use and waste treatment of chemicals in concentrated or diluted form and as working solutions must be obeyed.

8 General Information

Chemetall supplies a wide range of chemical products and associated equipment for cleaning, descaling, paint and carbon removal, metalworking and protection and non-destructive testing. Sales Executives are available to advice on specific problems and applications.

The above details have been compiled to the best of our knowledge on the basis of tests and research work and with regard to the current state of our practical experience. This technical product information is non-binding. No liabilities or guarantees deriving from or in connection with this leaflet can be imputed to us. Statements relating to possible uses of the product do not constitute a guarantee that such uses are appropriate in a particular user's case or that such uses do not infringe the patents or proprietary rights of any third party. The reproduction of any or all of the information contained in this leaflet is expressly forbidden without Chemetall's prior written consent.

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