
Product Name:

Metal Protective Varnishes

Product Number:

- IP9140 – Clear
 - IP9149 – Aluminium
 - IP9155 - Green
-

Product Description:

Metal protective varnishes are suitable for light alloys such as Magnesium and Aluminium. They are highly resistant to heat, corrosion, lubricants. Hydraulic fluids and aviation fuel.

Available in 3 versions; IP9140 clear dipping; IP9149 Aluminium spraying; IP9155 green tinted spraying.

Approved by MTU to MTS 1010 as a protective coating scheme.

Originally an approved alternative to the Aerolac Metal Protective Varnish scheme.

Was used in conjunction with IP9165 and IP9166 as a Rolls approved Magnesium protective system.

Approvals/Specifications:

Currently still approved to MTU; MTS 1010

These materials were originally released to AFS 1594 & DTD 875A, MSRR 9051. MSRR 9051 replaced by MSRR 9226 (Clear / green tinted) and MSRR 9029 (Aluminium)

IP9140 – Clear

- Alt to 1603-C-8070
- VX1290A/70
- CV113
- RR Code 137960
- NSN: 8010-99-126-5153
- Previously Released to: OMat 712A

IP9149 – Aluminium

- Alt to 1603-A-8070
 - E3521
 - MP404
 - RR Code 137493
 - Previously Released to: OMat 729B
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IP9155 – Green

- Alt to 1603-C-2250
- VX1290A/25 (was released to DTD900/4093)
- MP405
- NSN: 8010-99-151-2358
- RR Code 137945
- Previously Released to: OMat 701A

Performance:

Originally tested to MSRR 9051 on aluminium, magnesium and steel, this included:

- 100 hours at 200°C (430°F) heat resistant
- 3 hours in Skydrol at 70°C (160°F)
- 100 hours salt water fog at 35°C (95°F)
- 100 hours immersion in aviation fuel
- 10 cycles of 4 hours at 220°C (430°F) followed by 20 hours salt water fog

Components:

- Base:**
- IP9140 Clear
 - IP9149 Aluminium
 - IP9155 Green Tinted
- Thinner:**
- IP9151

Application:

Surface Preparation:

Degrease and grit blast using 120/220 aluminium oxide grit.
Remove any residual dust/dirt.

Paint Preparation:

Stir thoroughly before use. Thin as recommended in application method section.

Application Method:

- IP9140:
- **Dipping:** Thin with 10-15% IP9151 thinner: check and maintain viscosity
 - **Spray:** Use as supplied

IP9149:

- **Spray:** Thin with 5-10% IP9151

IP9155:

- **Spray:** Use as supplied

Drying Curing:

Flash Off: 15-20 minutes

Cure: 1 hour @ 190°C ± 8°C metal temperature

Technical Properties:

Supply Viscosity: Refer to Technical Department

Flash Point: 24°C

VOC Content: IP9140: 580gm / ltr
IP9149: 556gm / ltr
IP9155: 668gm / ltr

Colour: Clear, Aluminium, Green

Pack Size: 5 Litre

Density: IP9140: 0.995kg/l
IP9149: 1.05kg/l
IP9155: 0.985kg/l

Gloss: Gloss

Thinner: IP9151

Solvent/Clean Up: IP9151 or 40006

Catalyst: N/A

Theoretical Coverage: IP9140: 35m² / ltr @ 10µ film thickness
IP9149: 14.5m² / ltr @ 25µ film thickness
IP9155: 27m² / ltr @ 10µ film thickness

Storage:

Highly flammable liquid: store and use in accordance with the flammable liquid regulations

Shelf Life: 12 months temperate; 6 months tropical

Before use, refer to Product Safety Data Sheet

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Safety Data Sheets:

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