



Technical Data Sheet

iSAP™ 311 Inhibited Surface Adhesion Promoter

Product Description

iSAP 311 is a non-chromated inhibited surface adhesion promoter formulated to prepare surfaces prior to painting aircraft exteriors. It is engineered to replace chromated conversion coatings and other uninhibited pretreatments and adhesion promoters. iSAP 311 has been tested for broad spectrum materials compatibility, adhesion promotion and corrosion resistance in both chromated and non-chromated paint system stackups.

Features & Benefits

- Built with non-chromated inhibitor package
- Excellent adhesion promotion and corrosion resistance
- Ready-to-use single stage solution
- Does not require pre-mixing
- Easy rinsing
- Non-flammable
- Safe for use on aircraft surfaces including acrylics

Properties

Appearance	Clear Liquid
pH Value	11.0
Odor	Low
VOCs g/L	16.92
Viscosity (@ 25°C)	1.2 cps

Process

1. Preclean heavily soiled surfaces with **B&B™ JET-7, B&B JET-22C** or other Vantage qualified aircraft exterior cleaner.
2. Rinse with water.
3. Apply **iSAP 311** at full concentration by spray or wipe method.
4. Agitate wetted surface with an aluminum oxide pad (280-400 grit).
5. In same area, apply a second application of **iSAP 311**.
6. Re-agitate surface with an aluminum oxide pad.
7. Water rinse the substrate surface.
8. Validate a water break free surface.
9. Allow to dry.
10. Apply paint stackup.

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Vantage Specialties, Inc.

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Disposal/Safety

Disposal

Vantage recommends contacting your current or local environmental service company for proper disposal.

Safety

Please see Safety Data Sheet for further information.

Approvals and Testing

Materials Conformance Testing

- **Boeing**
 - D6-17487, BSS 7432
- **Douglas**
 - CSD #1
- **SAE**
 - ASTM F483 Immersion Corrosion Test, Al 7075-T6 Clad, Cadmium Removal Test per ASTM F483
 - ASTM F484 Acrylic Crazing Test
 - ASTM F485 Residue Test
 - ASTM F502 Paint Softening Test
 - ASTM F519, 45% Load, 150 hours, Type 1C
 - ASTM F1110 Sandwich Corrosion

Coating Performance*

- **SAE**
 - ASTM B117 Neutral Salt Spray
 - Outdoor Beach Corrosion Testing, 3 Years
 - ASTM D4541 Pull-Off Strength of Coatings
 - ASTM D3359 Method B Cross Hatch Tape Adhesive Testing
 - ASTM D2244 Color
 - ASTM D523 Gloss
 - ASTM D3363 Pencil Hardness
 - ASTM D522 Low-Temperature Flexibility
 - Hydraulic Fluid Resistance (ASTM D3359, ASTM 3363, ASTM D2244)
 - DI Water Resistance (ASTM D3359, ASTM 3363, ASTM D2244)
 - ASTM D2247 Humidity Resistance
 - ASTM G155 Weather Resistance
 - Strippability per TO 1-1-8

**In combination with epoxy primers and polyurethane topcoats*

NSN#

8030-01-719-8513 (5 GL Pail), 8030-01-719-8512 (55 GL Drum), 8030-01-719-8511 (330 GL Tote)



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Packaging

Available in pails, drums, and totes.

Shelf Life

12 months when stored in original, sealed container above 50°F (10°C).

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