

**AEROSPACE
MATERIAL
SPECIFICATION**

SAE AMS3101

REV. B

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Superseding AMS3101A

Adhesion Promoter
For Polysulfide Sealants, Non-crazing of Acrylic and Polycarbonate

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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1. SCOPE:

1.1 Form:

This specification covers adhesion promoters in liquid form.

1.2 Application:

This product has been used typically for use in enhancing the adhesion of polysulfide adhesives of sealing compounds to acrylic and polycarbonate windshield materials, but usage is not limited to such applications.

1.3 Safety - Hazardous Materials:

While the materials, methods, applications, and processes described or referenced in this specification may involve the use of hazardous materials, this specification does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved.

2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order.

2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

AMS 2471	Anodic Treatment, Aluminum Alloys, Sulfuric Acid Process, Undyed Coating
AMS 2820	Packaging, Aerosol
AMS 2825	Material Safety Data Sheets
AMS 3333	Sealing Compound, Polysulfide for Aircraft Windshields and Canopies, For Use Up to 250 °F (121 °C)
AMS 4045	Aluminum Alloy Sheet and Plate, 5.6Zn - 2.5Mg - 1.6Cu - 0.23Cr (7075; -T6 Sheet, -T651 Plate), Solution and Precipitation Heat Treated
AMS 4901	Titanium Sheet, Strip and Plate, Annealed, 70,000 psi (485 Mpa) Yield
AMS 5516	Steel, Corrosion Resistant, Sheet, Strip and Plate, 18Cr - 9.0Ni (SAE 30302), Solution Heat Treated
AS 5127	Methods for Testing Aerospace Sealants
AS 5127/1	Methods for Testing Aerospace Sealants, Two-Component Synthetic Rubber Compounds

2.2 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

MIL-P-5425	Plastic, Sheet, Acrylic, Heat Resistant
MIL-P-8184	Plastic, Sheet, Acrylic, Modified
MIL-P-23377	Primer Coatings: Epoxy, High Solids
MIL-G-25667	Glass, Monolithic, Aircraft Glazing
MIL-P-25690	Plastic, Sheets and Formed Parts, Modified Acrylic Base, Monolithic, Crack Propagation Resistant
MIL-P-83310	Plastic, Sheet, Polycarbonate, Transparent
MIL-P-85285	Coating, Polyurethane, High Solids
MIL-P-85582	Primer Coatings: Epoxy, Waterborne

3. TECHNICAL REQUIREMENTS:

3.1 Material:

The adhesion promoter shall be an un-dyed liquid, formulated to meet the requirements of 3.2.

3.2 Properties:

The adhesion promoter shall conform to the following requirements as determined by the test methods of 4.5.

3.2.1 Color: The adhesion promoter shall be not be intentionally tinted.