

BONDERITE®

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Henkel Ready-to-Use Surface Treatments for the Aerospace Industry

AMERICAS

U.S.A.

Henkel Corporation
32100 Stephenson Highway
Madison Heights, Michigan 48071
United States
Tel: +1.866.332.7024
Fax: +1.248.583.2976

CANADA

Henkel Canada Corporation
2515 Meadowpine Blvd.
Mississauga, Ontario L5N 6C3
Canada
Tel: +1.800.263.5043 (within Canada)
Tel: +1.905.814.6511
Fax: +1.905.814.5391

MEXICO

Henkel Capital, S.A. de C.V.
Blvd. Magnocentro No. 8 Piso 2
Centro Urbano Interlomas
52760 Huixquilucan
Edo de México
Tel: +52.55.3300.3644
Fax: +52.55.3300.3019

BRAZIL

Henkel Ltd.
Rua Karl Huller
136-Jd Canhema 09941-410
Diadema/Sao Paulo
Brazil
Tel: +55.11.3205.8955
Fax: +55.11.3205.8887

EUROPE

GERMANY

Henkel AG & Co KGaA
Henkelstraße 67
40191 Düsseldorf
Germany
Tel: +49.211.797.0
Fax: +49.211.798.4008

ASIA

CHINA

Henkel (China) Co. Ltd.
188 Guoyuan Road, Yancang
Nanhui District
201324 Shanghai
China
Tel: +86.21.6826.7097
Fax: +86.21.6826.7654

www.henkel-adhesives.com/aerospace

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Henkel



BONDERITE® ready-to-use conversion coatings and surface treatments range from pen-sized applicators for touch-ups to bulk packaging for full-scale processing. Choose BONDERITE brand products, formerly known as ALODINE and TURCO, and be ready for any aerospace manufacturing or maintenance need.

Benefits include:

- Available in multiple packaging configurations for optimal surface application
- Convenient ready-to-use form
- Improved process efficiency
- Reduced waste and operator error
- REACH compliant and Mil-Spec approved products available
- Prevent corrosion
- Improve adhesion



Product Name	Also known as	Substrate	Application		Characteristics			Operation		Approvals	Description	Environmentally-friendly
			Metal Pretreatment	Aircraft Depaint & Repaint	Chemistry	Form	Package Type	Temperature	Time			
TOUCH-N-PREP® COATINGS PENS - Non-rinse, dry-in-place coatings for the repair of bare aluminum substrates to prevent corrosion												
BONDERITE® M-CR 871 AERO	Alodine® 871	Aluminum	•		Tri-Chrome	Liquid	Pen Applicator	Ambient	Until Dry	MIL-DTL-81706 Type 2 Class 1A and 3 approved and meets other major OEM qualifications	BONDERITE® M-CR 871 AERO Touch-N-Prep® Coating is a tri-chrome dry-in-place conversion coating designed for use on aluminum and its alloys. The applicator used to deliver this product provides an easy and safer method of repairing bare areas of aluminum surfaces. Its proper use reduces worker contact to chemical solutions and decreases wastewater, such as rinse water generated from a conversion coating process.	
BONDERITE® M-CR 1132 AERO	Alodine® 1132	Aluminum	•		Hex-Chrome					MIL-DTL-81706 Type 1 Class 1A and 3 approved and meets other major OEM qualifications	BONDERITE® M-CR 1132 AERO Touch-N-Prep® Coating is designed to save labor, material, and time when applying a dry-in-place hex-chrome conversion coating for touch-up applications. Its proper use also reduces worker contact to chromated solutions and decreases wastewater, such as rinse water generated from a chromating process.	
WIPES - Convenient chrome-free, pre-saturated, conversion coating												
BONDERITE® M-NT 5700 AERO	Alodine® 5700	Aluminum	•		Chrome-free	Liquid	Wipe Applicator	Ambient	1-5 minutes		BONDERITE® M-NT 5700 AERO treatment is a chromium free conversion coating specifically formulated for treating aluminum and its alloys. This product is formulated as a ready-to-use material. The process provides an excellent base for organic finishes.	
READY-TO-USE COATINGS FOR LIGHT METALS - Available in various ready-to-use packaging configurations, these surface treatments are designed to treat and prevent corrosion on light metal substrates such as aluminum and magnesium.												
BONDERITE® M-CR 600 RTU AERO	Alodine® 600 RTU	Aluminum	•		Hex-Chrome	Liquid	Kit and various	70 – 100 °F 21 – 38 °C	1-5 minutes	MIL-DTL-81706 Type 1 Class 1A and 3 approved	BONDERITE® M-CR 600RTU AERO is a ready-to-use liquid product which produces a chromate conversion coating on aluminum and its alloys. The coating provides excellent protection for unpainted aluminum and bonds paint well.	
BONDERITE® M-NT 8800 AERO	Alodine® 8800	Aluminum	•		Chrome-free, organic	Liquid	Kit	Ambient	1-5 minutes	Meets major OEM qualification	BONDERITE® M-NT 8800 AERO is a solgel coating replacement specifically formulated for increasing adhesion to aluminum and titanium alloys. This product is suitable for spray, brush, and wipe on applications. The coating produced provides an excellent base for organic finishes and surface preparation for adhesive bonding. It should not be rinsed after application.	
BONDERITE® M-CR MAGNESIUM AERO	Alodine® Magnesium Treatment Kit	Magnesium	•		Hex-Chrome	Liquid	Kit	Ambient	Until Dry	SAE AMS-M-3171, Type VI NAVAIR 01-1A-509	BONDERITE® M-CR MAGNESIUM AERO contains products formulated for treating magnesium alloys to produce a chromate conversion coating conforming to SAE AMS-M-3171, Type VI. The application method conforms to requirements in NAVAIR 01-1A-509 and is meant primarily for touch-up and corrosion repair processes of magnesium alloys, and also is an adhesion promoter.	
BONDERITE® M-CR T5900 RTU AERO	Alodine® T 5900 RTU	Aluminum, Magnesium and Titanium	•		Tri-Chrome	Liquid	Various	70 – 100 °F 21 – 38 °C	1.5 - 3 minutes	MIL-DTL-81706 Type 2 Class 1A and 3 approved	BONDERITE® M-CR T5900 RTU AERO is a complex trivalent chromium conversion coating formulated for treating aluminum and its alloys, metals coated with IVD aluminum, magnesium, titanium and zinc surfaces. This product is formulated as a ready-to-use material for manual spray, brush and immersion applications. It provides corrosion resistance and also serves as an excellent base for organic finishes and adhesives.	
BONDERITE® M-CR 120 BRUSH AERO	Alodine® 120 Brush Kit	Aluminum	•		Hex-Chrome	Liquid	Kit	Ambient	1-5 minutes		BONDERITE® M-CR 120 BRUSH AERO contains the conversion coating BONDERITE M-CR 1201 AERO and the deoxidizer BONDERITE C-IC 605 AERO. These are products formulated for treating aluminum. This kit contains sufficient chemicals for cleaning and coating approximately 100 ft² of aluminum surface when used under normal conditions.	
LIQUID CLEANERS - Formulated to effectively clean painted and unpainted aircraft exterior and interior surfaces												
BONDERITE® C-AK 5948 DPM THK AERO	TURCO® 5948-DPM THICK	Aluminum, magnesium, stainless steel, titanium, ferrous, non-ferrous	•		Alkaline	Liquid	Various	149-176 °F 65 – 80 °C	5 - 15 minutes		BONDERITE® C-AK 5948 DPM THK AERO is a blue, viscous, alkaline, water base, concentrated compound formulated to effectively cling to painted and unpainted aircraft exterior and interior surfaces. It is ideally suited for use on all jets, especially in baggage bins, flap and wheel well areas, and on engines before overhaul.	
PAINT STRIPPERS - Henkel's BONDERITE® depaint technologies are NESHAP compliant, thixotropic products – solvent, hydrogen peroxide and water-based. They are easy to apply as they cling to vertical surfaces. Furthermore it eliminates surface contamination from mechanical removal methods.												
BONDERITE® S-ST 5351 AERO	TURCO® 5351	Aluminum, magnesium, stainless steel, titanium, ferrous, non-ferrous	•		Neutral, Methylene Chloride-Based	Liquid	Various	Ambient	Varies as needed	MIL-R-81294 approved	BONDERITE® S-ST 5351 AERO is a yellow, viscous paint remover developed to remove epoxy, polyurethane and similar coatings from metal surfaces at ambient temperatures. It clings to vertical and overhead surfaces and forms a surface film that helps retard evaporation and extend the working life of the stripper. It should not be used on materials that are affected by chlorinated hydrocarbons.	
BONDERITE® S-ST 5351 THIN AERO	TURCO® 5351 Thin	Aluminum, magnesium, stainless steel, titanium, ferrous, non-ferrous	•		Neutral, Methylene Chloride-Based	Liquid	Various	Ambient	Varies as needed		BONDERITE® S-ST 5351 THIN AERO is an amber, diphasic liquid developed to remove epoxy, polyurethane and other catalyzed finishes from ferrous and nonferrous surfaces. It does not contain free acidic or alkaline constituents and is approved for use on high strength steels. It should not be used on materials that are affected by chlorinated hydrocarbons.	
BONDERITE® S-ST 6776 LO AERO	TURCO® 6776-LO	Aluminum, stainless steel	•		Acidic	Liquid	Various	Ambient	Varies as needed	Meets major OEM qualifications	BONDERITE® S-ST 6776 LO AERO environmentally advantaged paint remover is low-odor, thixotropic, developed for effective stripping of resistant finishes such as epoxies, epoxy primers, polyurethanes and similar catalyzed paints. It offers a significant advance in work place safety. It does not contain methylene chloride, chlorinated solvents, phenols, chromates, ammonia or amines.	
BONDERITE® S-ST 6930 AERO	TURCO® EA STRIPPER 6930	Aluminum, stainless steel, titanium, ferrous, non-ferrous	•		Peroxide-Activated, Water-Based	Liquid	Various	Ambient	Varies as needed	Meets major OEM qualifications	BONDERITE® S-ST 6930 AERO environmentally advantaged paint remover is low odor, thixotropic, activated by hydrogen peroxide. It was developed for effective stripping of such resistant finishes as epoxies, epoxy primers, polyurethanes, and similar catalyzed aircraft paints. It offers a significant advance in paint stripper technology. It complies fully with NESHAP. It meets the corrosivity requirements of TT-R 2918A. It is not recommended for use on magnesium.	
BONDERITE® S-ST 1270-5 AERO	TURCO® 1270-5	Aluminum and composites	•		Alkaline	Liquid	Various	Ambient	Varies as needed	Meets major OEM qualification	BONDERITE® S-ST 1270-5 AERO is a viscous white emulsion that does not contain any of the hazardous or highly toxic components of conventional paint removers. It is free of aromatic hydrocarbons, chlorinated solvents, phenol and chromates. It is particularly effective in selective removal of topcoats from painted composites.	
BONDERITE® S-ST 1270-6 AERO	TURCO® 1270-6	Aluminum and composites	•		Alkaline	Liquid	Various	Ambient	Varies as needed	Meets major OEM qualification	BONDERITE® S-ST 1270-6 AERO is a viscous white emulsion that does not contain any of the hazardous or highly toxic components of conventional paint removers. It is free of aromatic hydrocarbons, chlorinated solvents, phenol and chromates. It is particularly effective in selective removal of topcoats from painted composites.	