PPG Aerospace
PRC-DeSoto

Commercial and General Aviation Coatings Guide






Where Smart Solutions Take Flight®

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Global Leadership in Aerospace Coatings

PPG Aerospace, PRC-DeSoto is qualified to more Commercial and General Aviation specifications than any other supplier. With more than a thousand types of coatings, we offer the industry's broadest product line. Our coatings can be applied on numerous substrates including fiberglass, composites, and metallic surfaces for superior resistance to corrosion, chemicals, and rain erosion. Our Desothane® HS topcoats result in a beautiful finish with lasting durability and have been applied successfully in a full range of weather conditions. Our new selectively strippable intermediate coating cuts repaint cycle time by as much as 40%.

At PPG Aerospace, our network of Application Support Centers (ASCs) are conveniently located to offer global capability from a regional base, expediting delivery of our products and bringing customer service and technical resources closer to you. To find out more about our coatings or other PPG Aerospace products and services, including our line of Eldorado paint strippers and cleaners, please contact the ASC nearest you. For a complete listing of our ASC locations, visit www.ppgaerospace.com.

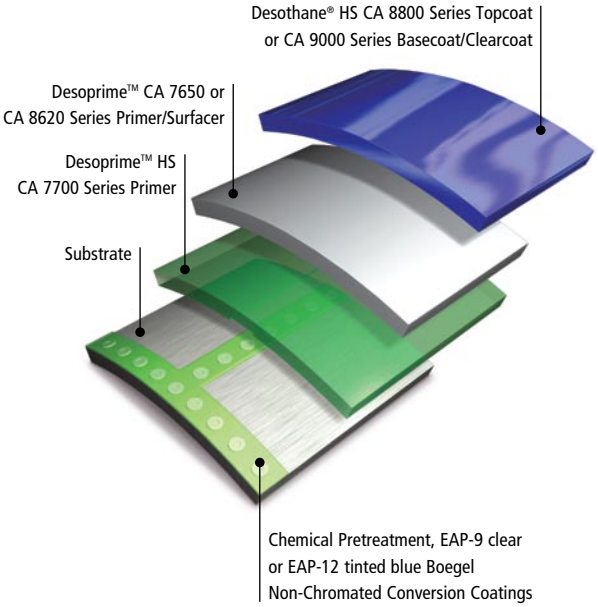
Desothane® HS Appearance Enhancements

Features	Benefits
Excellent gloss and image reflection	Excellent appearance
Proven gloss and color retention	Longer time between re-paints
Good cleanability	Less labor to keep aircraft clean
Excellent flexibility	Resists cracking and protects the metal better
Good corrosion resistance	Shorter time in maintenance hangar for corrosion control
Selectively Strippable System (SSS) – easily stripped	

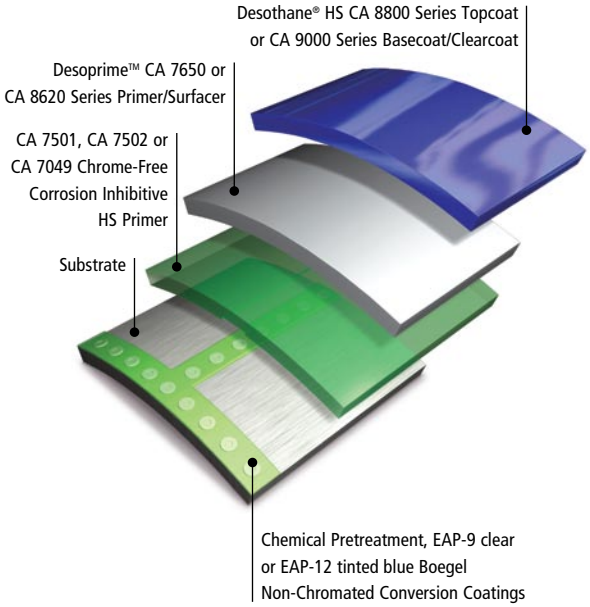
Desothane® Coatings Systems

General Aviation Coatings Systems

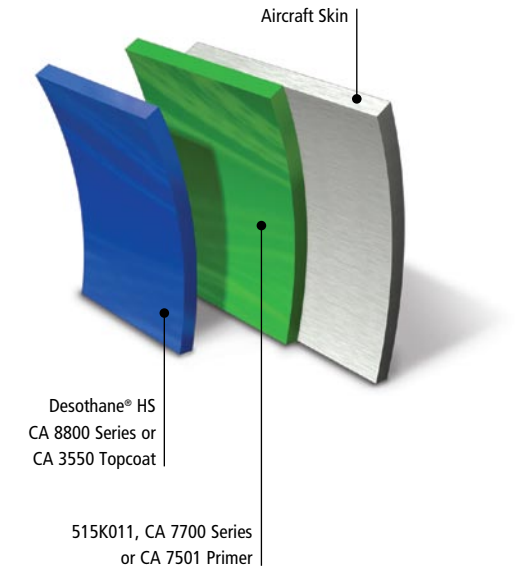
Business Jet Paint System



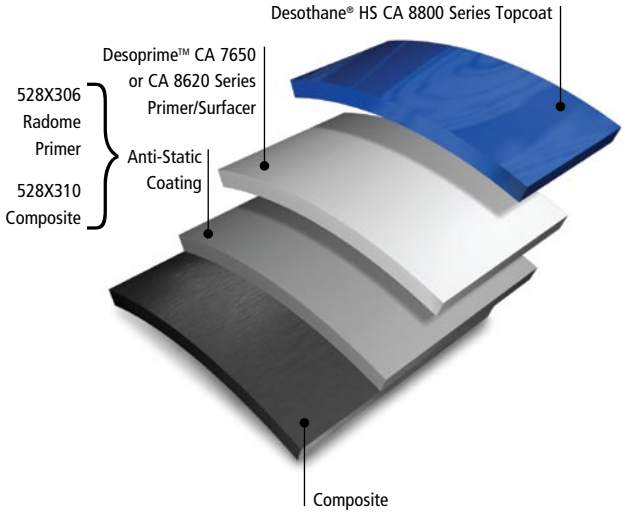
Chrome-Free System



Interior System

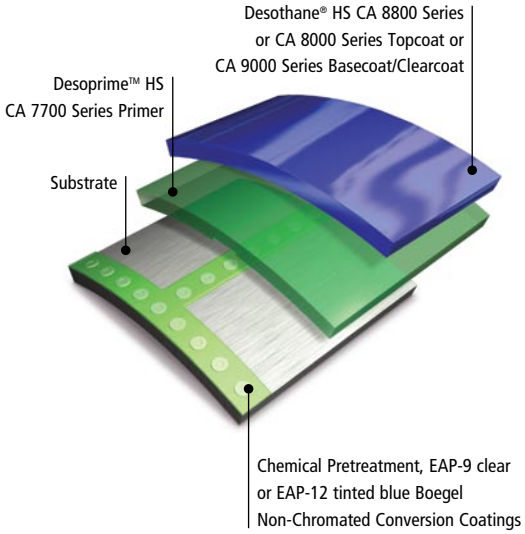


Composite System



Commercial Coatings Systems

Standard Commercial Paint System



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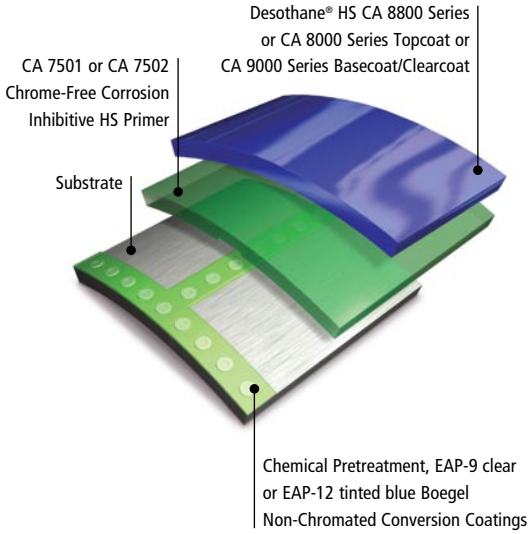
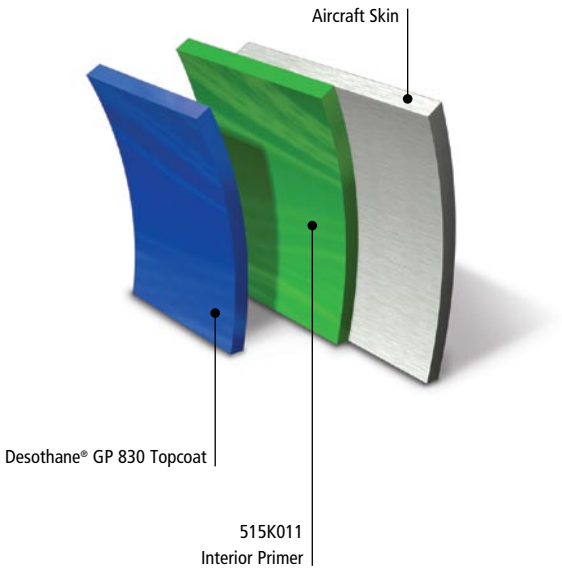
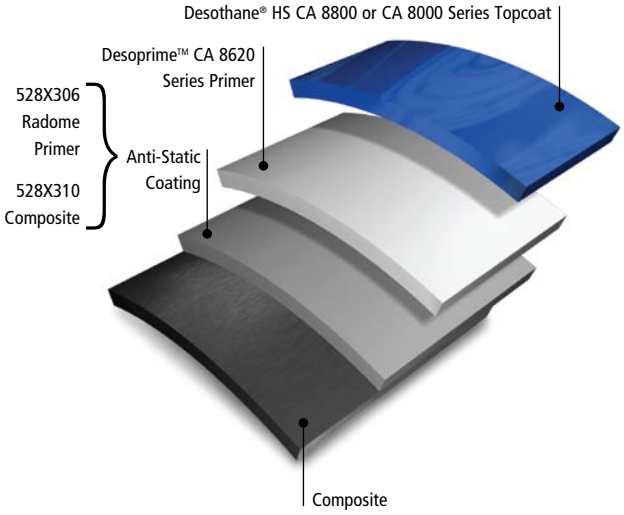


Interior System



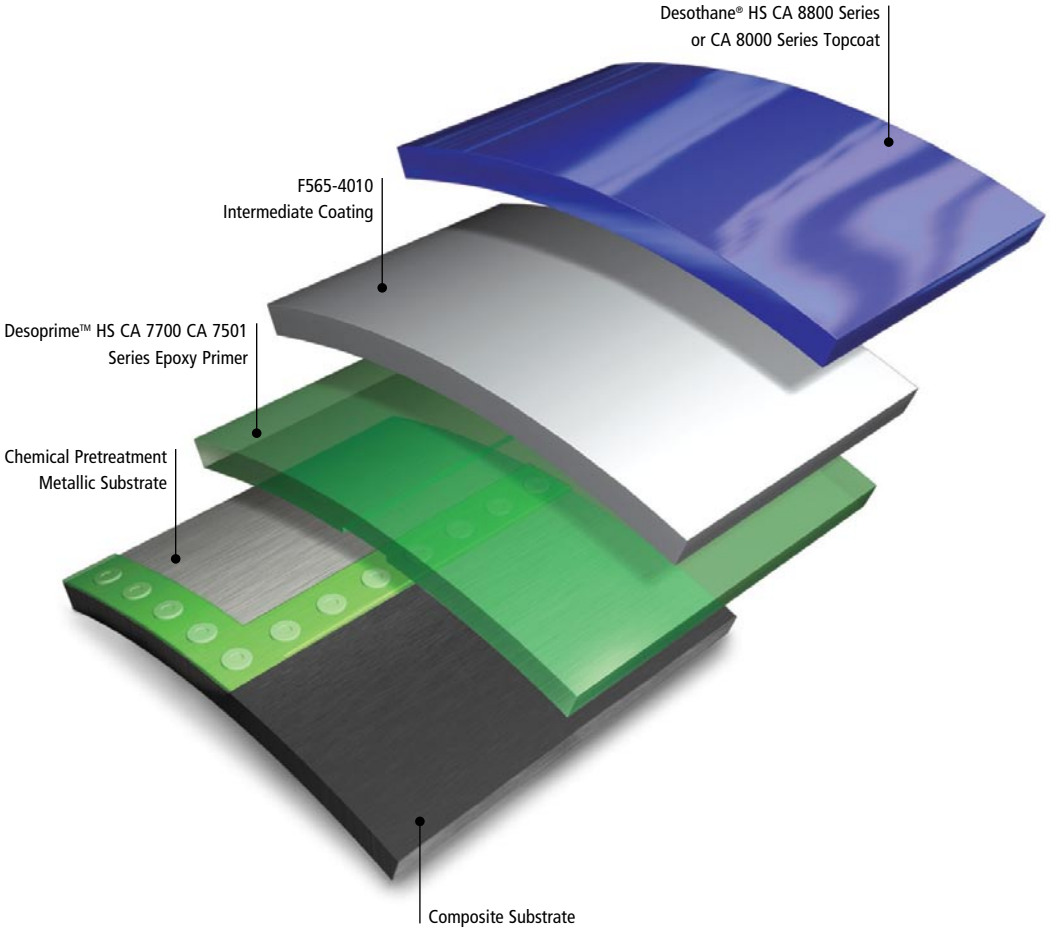
Composite System

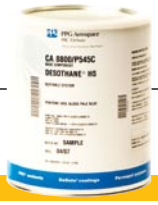


Desothane® Coatings Systems

(continued)

Selectively Strippable System





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Interior Epoxy Primers — General Purpose

Table 1

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
515K011 / 910-012	1:1	Conventional	BAMS 565-001 BMS 10-11 Type I MEP 10-059	Fluid resistant, BAC 452. Green.
513K009 / 910-012	1:1	Conventional	BAMS 565-001 BMS 10-11 Type I	Fluid resistant, BAC 377. Yellow.
515-700 / 910-704	1:1	Conventional	DMS 1786 Composition A DPM 4838 MMS-415 STM0685	Fluid resistant. Green.
535K020 / 930K097	3:1	Low VOC	EMS 53181 Type I HMS 15-1110 Type I MCS 9010 Type I	Fluid resistant, high solids, Fed Std. #34151. Green.
PR205 / ACT205	3:1	Low VOC	ABP 4-1123 ABP 4-2130 AIMS 04-04-001 AIMS 04-04-003 AIMS 04-04-004 AVN 7-003 BSX33B MSRR 9064	Formulated for interior use and fuel tanks. Excellent fluid resistance and adhesion. Yellow.
CA 7045	3:1	Low VOC	BS2X33B	Interior urethane primer for Airbus and British Aerospace.

Exterior Epoxy Primers — Urethane Compatible

Table 2

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
CA 7700 series / CA 7700B B & BE version	1:1	Low VOC	BMS 10-72 Type VIII	Superior adhesion, flexibility and fluid resistance, 6-hour pot life, fast dry. Yellow. Available with CA 7700BE activator for longer wet edge, electrostatic spray.
CA 7755A / CA 7755B B & BE version	1:1	Low VOC	BAMS 565-008 MEP 10-068 Raytheon	Superior adhesion, flexibility and fluid resistance, 6-hour pot life, fast dry. Green. Available with CA 7755BE activator for longer wet edge, electrostatic spray.
513X377 / 910X482 / 020X364	4:1:3	Conventional	BAMS 565-008 BMS 10-79 Type II	Amine cured, strippable, electrostatic exterior primer. Yellow.
515X349 / 910X533	1:1	Conventional	BMS 10-79 Type III DHMS C4.18 DMS 2144 Composition A STMK 189	Amine cured, superior adhesion, non-strippable. Green.
513X384 / 910X456	1:1	Conventional	BMS 10-79 Type II STMK 189	Amine cured, strippable, exterior primer. Yellow.
512X310 / 910X533	1:1	Conventional	BMS 10-103 Type I DHMS C4.01 MCS 9010 Type I	Chrome-free epoxy designed for use on composite surfaces. Light gray.
CA 7501A / CA 7501B	1:1	Low VOC	BMS 10-118 PRC-DeSoto Standard	Chrome-free, corrosion inhibitive, high solids, fast dry primer and composite fuel tank coating. Gray.
CA 7502	1:1:0.25	350 g/l	PRC-DeSoto Standard	Chrome-free corrosion inhibitive HS primer for aluminum.
CA 7049	4:1:0.5	Low VOC	AIMS 04-04-031 AIMS 04-04-032	Chrome-free epoxy primer for composite and aluminum surfaces
CA 7833	2:1	Low VOC	PRC-DeSoto Standard	Semi-gloss yellow primer
PR205 / ACT 205 (CA 7003 / CA 7003B)	3:1	Low VOC	AIMS 04-04-001 AIMS 04-04-003 AIMS 04-04-004 AVN 7-003 BSX33B MSRR9064	Formulated for use on exterior and interior of aircrafts and fuel tanks. Excellent fluid resistance and adhesion characteristics. Yellow.
F580-2080 / F275-160	2:1:1	Conventional	AIMS 04-04-001 AIMS 04-04-032 Airbus TN A.007. 10112	Formulated for use on exterior and interior of aircrafts and fuel tanks. Excellent fluid resistance and adhesion characteristics (used with SSS system). Yellow.
Celoflex™ 95 (5478/0778)	1:1:0.5 – 1	Low VOC	AIMS 04-04-016 Airbus TN A.007.10194	PU elastomeric coating, suitable for use on radomes and composites.
533K004 / 930K034	3:1	Low VOC	DMS 2104 Composition C	Excellent corrosion and fluid resistance. Flexible. Yellow.

Wash Primer/Polyurethane Primer System

Table 3

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
P99 Wash Primer (7641/3600)	1:1:(viscosity)	Conventional	Airbus TN A.007.10113	Etch primer, highly flexible, 8-hour pot life, fast dry. Iridescent yellow – golden color.
PAC33 (4355/3600)	5:1:4 – 5 (max)	Conventional	ABP 4-2133 AIMS 04-04-001 AIMS 04-04-003 AIMS 04-04-004 Airbus TN A.007.10112 Airbus TN A.007.10113 Airbus TN A.007.10118 Rolls Royce RPS 611 UK MoD AFT 1355C	Polyurethane primer used over P99, highly flexible, 8-hour pot life, fast dry. Yellow.
PAC33CF (4360/3031)	5:1:4 – 5 (max)	Conventional	AIMS 04-04-012 Airbus A.007.10113	Chrome-free polyurethane primer used over P99, high flexibility, 8-hour pot life, fast dry. Beige.

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
CA 100 A/B Adhesion Promoter	1:1	Conventional	DPM 6568	Low density adhesion promoter. Improves bonding characteristics.
CA 200 Tie-Coat	3:1:2	Conventional	BMS 10-127	Adhesion promoter. Improves bonding characteristics.
CA 102 A/B Adhesive Primer	1:1	Conventional	PRC-DeSoto Standard	Low density adhesion promoter
515X346 / 910X520 / 020-702	4:1:4	Conventional	BAC 5010 Type 102 BAC 5710 Type 60 DPM 8951	Flexible, high tensile strength epoxy primer, room temperature curing, corrosion resistant, formulated totS7e(Prosity)-24(Adhesivs)-Improvef

Desothane® HS Commercial Polyurethane Topcoats

Table 7

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
CA 8800 series / CA 8800Z / CA 8800CT thinners	2:1:1	Low VOC	BAMS 565-009 CMFS 037 DHMS C4.04 DPM 6546 GAMPS 3209 MEP 10-069 Raytheon	High solids, buffable, durable, flexible, available in variety of colors (including metallics) and dry times.
CA 8000 series / CA 8000B / CA 8000C thinners	2:1:1	Low VOC	ABP 4-2127 AIMS 04-04-013 BAMS 565-009 BMS 10-60 Type II BMS 10-72 Type VIII BMS 10-125 Type III BMS 10-126 Type I D6-1816 DHMS C4.04 DMS 2143 DPM 6456 GAMPS 3209	High solids and flat topcoats, highly durable and flexible, available in variable dry times and colors (including metallics).
CA 8010 series / CA 8010D	2:1	Low VOC	BMS 10-60 Type II	High solids, flat, highly durable and flexible, available in variable dry times and colors.
CA 8020 series / CA 8020D	2:1	Low VOC	BMS 10-60 Type II	High solids, semi-gloss, highly durable and flexible, available in variable dry times and colors.
Desothane® GP 830 general purpose polyurethane topcoats	2:1:1	Low VOC	BMS 10-60 Type I	High solids polyurethane, available in a variety of colors. BMS 10-60 Type I products are suitable replacements for BMS 10-11 Type II products.
PU66 5440/XXXX, 0730/9000, 0491/9000	1:1(viscosity)	Conventional	Airbus TN A.007.10112 Airbus TN A.007.10113 Airbus TN A.007.10118 WL 5.7051	Polyurethane topcoat, 8-hour pot life, available in a variety of colors.

Desothane® Clear Topcoats

Table 8

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
CA 8800B900 / CA 8800Z / CA 8800F* thinners	2:1:1	Low VOC	BAMS 565-009 BMS 10-72 Type VIII BMS 10-125 Type III MEP 10-069	Buffable clear polyurethane designed for use over any CA 8000 or CA 8800 series topcoats. Easy to apply.
CA 8905 / CA 8905B / CA 8905C or CR	3:1:1	Conventional	PRC-DeSoto Standard	High temp, buffable stain resistant clear polyurethane designed to resist turbine engine oils and hydraulic fluid stains frequently found on small aircraft underbellies. Longer wet edge.
Desothane® Evolution CA 8905HP high durability buffable clearcoat	3:1:1	Low VOC	PRC-DeSoto Standard	Buffable, stain resistant clear polyurethane designed to resist engine oils, hydraulic fluid stains commonly found on small aircraft. This product is ideal for clearcoating over CA 9500 series, CA 8800 series, and CA 8000 series topcoats
CA 8000B900B / CA 8000B	1.5: 1	Low VOC	BAC 5312	Clear polyurethane decal edge seal designed to be brushed over small areas or to seal decals, fast dry.
CA 8000B900A / CA 8000B	2:1	Low VOC	BAMS 565-009 BMS 10-60 Type II BMS 10-72 Type VIII BMS 10-125 Type III DHMS C4.04 Type 6	Clear polyurethane designed for use over CA 8000 series.
CA 9000 Series Basecoat/Clearcoat	4:4:1	Low VOC	PRC-DeSoto Standard	Improved appearance, durability and low VOC

Desothane® Anti-Chafe Topcoats

Table 9

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
CA 8100 / CA 8100B / CA 8100C	2:1:1	Low VOC	AIMS 04-04-007 BAC 5710 Type 27 BAMS 565-005 BMS 10-86 Type I - White and gray BMS 10-86 Type III - any color GMS 4201 PAI 3782 MEP 10-071	PTFE filled polyurethane, highly durable and abrasion resistant. Available in a variety of colors and dry times. Available in two part kit for touch-up applications.
CA 8101 / CA 8100B / CA 8100C	2:1:1	Low VOC	BMS 10-86 Type II	PTFE filled polyurethane, highly durable and abrasion resistant. Available in BAC 700 (BAC 7067) white and BAC 707 gray. Available in two part kit for touch-up applications.
CA 8110	2:1:1	Low VOC	MEP 10-071	PTFE – flat
CA 8120	2:1:1	Low VOC	MEP 10-071	PTFE – semi-gloss
ARC2 / ACT34 / T74	2:1 Plus thin to viscosity	Conventional	ABP 4-2124	PTFE filled polyurethane, highly durable and abrasion resistant. Available in a variety of livery colors.

Desothane® Cabin Interior Topcoat

Table 10

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
CA 8400	3:1	Low VOC	DPM 5391	Fire resistant topcoat for cabin interior. Meets FAR 25.853 when used according to specification. Available in a variety of colors. Semi-gloss & flat.

Epoxy-Amine Topcoats

Table 11

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
CA 3550 / CA 3550B / CA 3550C	2:1:1	Low VOC	PRC-DeSoto Standard	Flexible, fluid and corrosion resistant, available in variety of colors.
EC94 / ACT194 (CA 3120 / CA 3120B)	2:1	Low VOC	ABP 4-2130 AIMS 04-04-003	Used for interior of aircraft, excellent adhesion to epoxy or polyurethane primers.
Koropon® HS topcoat/ CA 3000 series	3:1	Low VOC	DMS 2433 Composition C EMS 53181 Type II HMS 15-1100 Type II GMS 5006	Used for interior of aircraft, resistant against harsh fluids, corrosion resistant, available in a variety of colors.

DeSoto® Conductive Epoxy Coatings

Table 12

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
528X306 / 910X464	1:1	Conventional	BAMS 565-012 BMS 10-21 Type II	Used to control static charge bleed-off on radomes, antennas, fiberglass, and other insulative parts. Coating's surface resistivity ranges from 1 to 100 megohms per square. Jet black.
528X310 / 910X464	1:1	Conventional	BAMS 565-012 BMS 10-21 Type III	Used to obtain and control surface conductivity on composite surfaces. Coating's surface resistivity ranges from 0 to 100,000 ohms per square. Jet black.

DeSoto® High Temperature Coatings

Table 13

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
519X303 / 910X357 / 030X324	3:1:2	Conventional	PAI 3751-21-1 PWA 568	Epoxy primer, low density, resistant up to 400°F (204°C). Aluminized blue-green.
529K002 / 910K021	1:1	Conventional	BAC 5710 Type 53 PAI 3751-21-2 PWA 569	Epoxy topcoat, fluid resistant, commonly used over 519X303, resistant up to 400°F (204°C). Aluminized silver.
825-009 / 910-175 / 020-044	4:1:4	Conventional	BAC 5710 Type 51 BAMS 565-013 DPM 5893	High temperature resistant polyurethane for composite/plastic substrates, resistant up to 450°F (242°C). Aluminized green.
PL101C3	Mixed ready for use	Conventional	MSRR 9029	Single pack, matte, aluminum filled enamel for aero-engine applications, suitable for steel, aluminum and titanium. Resistant up to 932°F (500°C).
SE164C1	Mixed ready for use	Conventional	MSRR 9032	Single pack erosion resistant provides excellent protection of steel and aluminum engine components. Resistant up to 536°F (280°C).

DeSoto® Integral Fuel Tank Coatings

Table 14

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
833K086 / 930K088	2:1	Low VOC	AMS-C-27725 BAMS 565-010 DHMS C4.06 Type I DMS 1850 Composition C	Excellent intercoat adhesion with fuel tank sealants. Yellow.
CA 7501	1:1	Low VOC	BMS 10-123	Chrome-free epoxy primer for composite fuel tanks.
CA 7045	3:1	Low VOC	BS2X33B Submitted for Airbus qualification	Urethane primer for fuel tanks.
823-707 / 910-702 / 020-707	4:1:4	Conventional	AMS-C-27725 BAC 5793 BAMS 565-010 BMS 10-101 DHMS C4.06 Type I DMS 1850	Excellent adhesion to titanium and stainless steel. Yellow.
CA 5730	1:1	Low VOC	PRC-DeSoto Standard	Epoxy fuel tank coating.
823-011 / 910-099 / 020-037	4:1:4	Conventional	BAC 5793 BMS 10-101	Excellent adhesion to titanium and stainless steel. Translucent yellow.
PR205 / ACT205	3:1	Low VOC	ABP 4-1123 ABP 4-2130 AIMS 04-04-001 AIMS 04-04-003 AIMS 04-04-004 AVN 7-003 BSX33B MSRR 9064	Formulated for interior use and fuel tanks. Excellent fluid resistance and adhesion. Yellow.

DeSoto® Wing Coatings

Table 15

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
Winguard (FE107 / T187)	1:1	Conventional	Airbus TN A.007.10129	Single pack, aluminum filled, highly flexible polyurethane. Aluminum.
CA 8900	2:1:1	Low VOC	AIMS 04-04-026	PTFE – Aerodynamic, used with P99 or CA 7049
CA 3320 / IM207	2:2:1	Low VOC	PRC-DeSoto Standard	High solids, aluminum filled, fluid resistant epoxy, applicable by roller or all types of spray equipment. Light gray.

Desothane® HS Walkway Topcoats

Table 16

Product Number	Mix Ratio	VOC	Specifications	Comments / Benefits
CA 8022B7022 /CA 8020D Pumice: 920K058	2:1	Low VOC	BAC 5705 Type I MEP 10-085	Used on over-wing emergency exits. Can be applied by spray, roller or brush. Semi-gloss white.
CA 8012B701 / CA 8010D Pumice: 920K058	2:1	Low VOC	BAC 5705 Type I MEP 10-085	Used on over-wing emergency exits. Can be applied by spray, roller or brush. Flat black.
CA 8012 / CA 8022 Pumice: 920K058	2:1	Low VOC	MEP 10-085	All colors available.

DeSoto® Thinners, Flow Control and Solvent Reducers

Table 17

Product Number	VOC	Specifications	Comments / Benefits
CA 8800CTR CA 8800CT CA 8800CT1 CA 8800CT2 CA 8800CT3 CA 8800CT4 CA 8800CT5	Conventional	BAMS 565-009 CMFS 037 DHMS C4.04 DPM 6546 GAMPS 3209 MEP 10-069	Thinner for Desothane® HS CA 8800 series topcoats. Designed for improved appearance, flow, and buffability. Available in variable dry times.
CA 8800FR CA 8800F1 CA 8800F2 CA 8800F3 CA 8800F4	Conventional	BAMS 565-009 GAMPS 3209 MEP 10-069	Thinner for Desothane® HS CA 8800 series clear coat topcoats. Designed for improved appearance, flow and buffability during warm weather conditions.
CA 8000C CA 8000C1 CA 8000C2 CA 8000C3 CA 8000C4 CA 8000C5	Conventional	BAMS 565-009 BMS 10-60 Type II BMS 10-72 Type VIII BMS 10-125 Type III BMS 10-126 Type I D6-1816 DHMS C4.04 DPM 6456 MEP 10-069	Thinner for Desothane® HS CA 8000 series topcoats. Designed for improved appearance and flow. Available in variable dry times.
CA 8000CT CA 8000CT1 CA 8000CT2 CA 8000CT3	Conventional	BAMS 565-009	Thinner for Desothane® HS CA 8000 series polyurethane topcoats. Designed for improved appearance, flow and buffability. Available in variable dry times.

DeSoto® Thinners, Flow Control and Solvent Reducers (Continued)

Table 17

Product Number	VOC	Specifications	Comments / Benefits
CA 1805CX	Exempt	PRC-DeSoto Standard	Compliant thinner for use with high solids or conventional primers or topcoats. Aids ease of application, improves flow properties in warm weather conditions.
CA 1800CX	Exempt	PRC-DeSoto Standard	Compliant thinner for use with high solids or conventional primers or topcoats. Aids ease of application, improves flow properties.
020X457	Conventional	PRC-DeSoto Standard	Thinner for use in warm weather for CA 8000 / CA 8800.
CA 8000R / Desothane® HS Rollable Flow Additive	Conventional	PRC-DeSoto Standard	Added to Desothane® HS polyurethane topcoats to optimize the appearance during roller application by minimizing orange peel.
CA 1900 / DesoBlend™ Universal Blending Solvent	Conventional	PRC-DeSoto Standard	Designed for activated urethane topcoats. Used to melt dry spray edges on spot/panel repairs.
CA 8000 Kicker	Conventional	PRC-DeSoto Standard	Designed to reduce the dry to tape time of Desothane® HS CA 8000 series polyurethane topcoats without adversely affecting the properties of the dry film.

Desoclean™ Cleaning Solvents

Table 18

Product Number	Flash Point	Vapor Pressure	Specifications	Comments / Benefits
Desoclean™ 110 (020K019)	103°F (38°C)	4 mmHg	PRC-DeSoto Standard	Non-aggressive solvent cleaner. Excellent for metallic and composite components.
Desoclean™ 45 (020X413)	22°F (-5.6°C)	39 mmHg	BAC 5322 DPM 8226 STM0752	Aggressive solvent cleaner. Highly effective on aircraft and aerospace metallic sub-assemblies, parts and spray equipment.
Desoclean™ 120	63°F (17°C)	14 mmHg	PRC-DeSoto Standard	Substrate Cleaner and Degreaser. Non-aggressive cleaner, especially effective against silicone contamination and mold release agents. Can be used on metallic and non-metallic components.
Desoclean™ 130	23°F (-5°C)	28 mmHg	PRC-DeSoto Standard	Substrate and Equipment Cleaner. Highly aggressive cleaner, effective on aircraft and aerospace metallic sub-assemblies, parts and spray equipment.
Desobond™ CA 104	43°F (6°C)	18 mmHg	PRC-DeSoto Standard	Wipe solvent that leaves thin film to improve adhesion on aged epoxy and urethane coatings.

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