Nycote
LABORATORIES
CORPORATION

THE LEADER IN CORROSION PREVENTION



THE NYCOTE® PERFORMANCE ADVANTAGE

Simple, Single Pass Solution

Nycote Laboratories has been a pioneer in industrial coating technology for over 60 years. Our liquid nylon protection is a revolutionary barrier against corrosion, friction & conductivity for mission-critical aerospace, automotive & marine applications.

Nycote's unique liquid nylon formulation eliminates pinhole voids with a fast and convenient single pass solution.

Significant Performance Advantages

- Clear lightweight hybrid nylon formulation for uniform coverage
- Microbial corrosion protection
- Self-leveling film technology for 100% encapsulation protection
- Simple surface preparation for rapid application
- Custom tinting available
- Rapid global delivery (4-6 days lead time)
- Single pass solution for easy application
- Single source protection against Skydrol, JP-4, JP-5, JP-8, JP-10, salt spray, oxidation, conductivity and other corrosive elements
- Reusable over shelf life
- Available in bulk or in custom applicators (2 OZ bottles)
- EU/IATA/REACH regulation compliant
- Nycote 7-11 & 99 meet the standards for outgassing per ECSS-Q-ST-70-02
- Nycote 7-11 meets ISO 22196 International Organization for Standardization Method 22196 - The measurement of antibacterial activity on plastics and other non-porous surfaces
- Nycote 7-11 & 99 meet Specification IPC-CC-830C – Qualification and Performance of Electrical Insulating Compound for Printed Wiring Assemblies

SPECIAL QUALIFICATIONS

ECSS-Q-ST-70-02 Outgassing	Compliant (RML) < 1, 00%, CVCM < 0, 10%—7-11 & 99
ISO22196 Coating efficacy to microorganisms S. Aureus ACCT6538 & E. Coli ACCT9739. Effectively kills microbes. Tested effective to SARS-CoV-2	99.99003% Kill — 7-11 & 99
Permeation Testing to:	MIL-DTL-5578D Aircraft Fuel Tanks Self Sealing; MIL-DTL-27422F Fuel Tank Crash & Ballistic Resistance; MIL-T-52983G Fuel Tanks Fabric Collapsible
IPC-CC-830C – Qualification and Performance of Electrical Insulating Compound for Printed Wiring Assemblies (7-11 & 99)	Meets Florescent IPC-CC-830C–MATERIALS/CURE/ FLUORESCENCE/APPEARANCE IPC-CC-830C– paragraphs 3.5.1 ASTM D1084 – Standard Test Methods for Viscosity of Adhesives IPC-CC-830C– paragraphs 3.3.2 – Shelf-life IPC-CC-830C– paragraphs 3.5.5 IPC-TM-650 Method 2.4.5.1 – Flexibility IPC-CC-830C– paragraphs 3.5.6 UL 94 HB – Flammability IPC-CC-830C– paragraphs 3.6.1 IPC-TM-650 Method 2.5.7.1 – Dielectric withstanding voltage IPC-TM-650 method 2.6.3.4A – Moisture and insulation resistance IPC-CC-830C para. 3.7.2 IPC-TM-650 method 2.6.7.1 – Thermal shock IPC-TM-650 method 2.6.3.7 – Hydrolytic Stability

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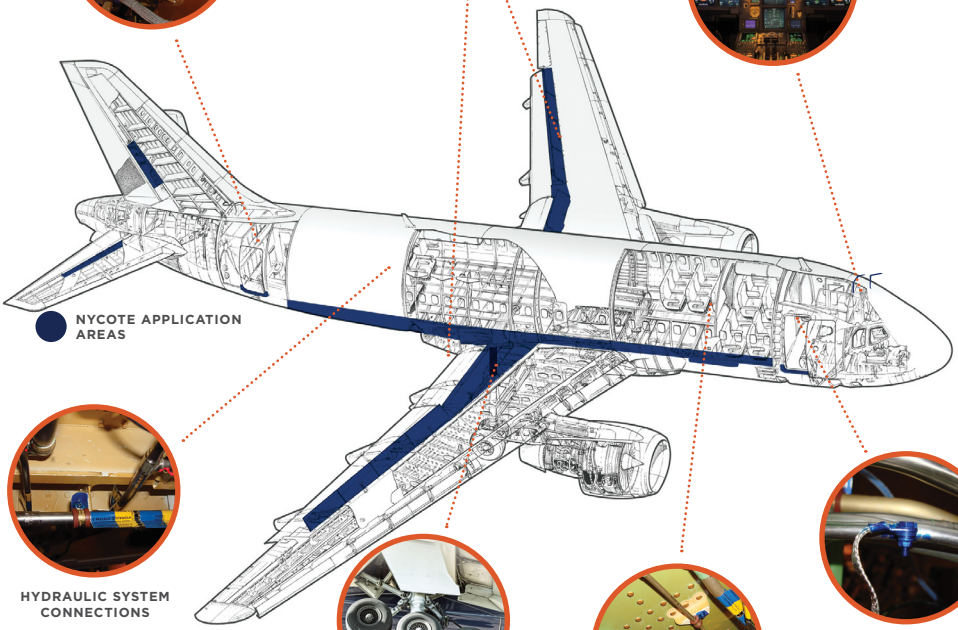
ELECTRIC GROUNDING CONNECTIONS, PLUMBING & GALLEYS



HYDRAULIC CONNECTIONS, WING FLAPS



COCKPIT



NYCOTE APPLICATION AREAS

HYDRAULIC SYSTEM CONNECTIONS

WHEEL WELL



FLOOR FRAMING, PLATE/BOLT CONNECTIONS

AIRFRAME/STAIR CONNECTIONS, PASSENGER ENTRY DOORS



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PRODUCT SPECIFICATIONS

PHYSICAL PROPERTIES	NYCOTE 7-11® 1-Component System NSN: 8010-01-134-0415		NYCOTE 88® 2-Component System NSN: 8010-01-530-534		NYCOTE 99® 1-Component System NSN: Available soon	
Temperature Range	-70º F to 300º F (-56º C to 148º C)		-70º F to 300º F (-56º C to 148º C)		-70º F to 400º F (-56º C to 204º C) Will protect above 400ºF - Color may darken without coating degradation	
Resin / Film	**Resin**	**Film**	**Resin**	**Film**	**Resin**	**Film**
Color	Clear	-	Clear	-	Clear	-
Viscosity: @ 72º F. Zahn #2 cup	50-90 sec	-	21-27 sec	-	60-90 sec	-
Solid Content (Non-Vol.)	19%	-	17%	-	19%	-
Flash Point: C.O.C	70°F	-	70°F	-	70°F	-
Pounds per Gallon @ 78° F	7.4±0.2 lb.	-	7.4±0.2 lb.	-	7.4±0.2 lb.	-
Shelf Life @75° F	6 Months	-	12 Months	-	8 Months	-
Film Thickness, 1 Dipcoat	-	0.5 mil	-	0.4 mil	-	0.5 mil
Coverage per Gallon	300 sq.ft	-	300 sq.ft.	-	300 sq.ft.	-
Tack-Free/Cure Time, Full cure (Can be forced by heat) 50% RH@ 70° F**	-	1 hour / 72 hrs.	-	1 hour / 72 hrs.	-	1 hour / 72 hrs.
Film Pencil Hardness ASTM D3367	-	3-H	-	1-H	-	3-H
Adhesion SAE AMS-S-4383	-	22 lbs.	-	21 lbs.	-	23+ lbs.
Adhesion to ASTM D3359-5B	-	0% affected at 180 pull	-	-	-	0% affected at 180 pull
Abrasion Resistance (500 Gr. #17 Wheel-100 cycles)	3.0 mgm	-	2.9 mgm	-	3.0 mgm	-
Scratch Hardness - 1000G Load	-	-	-	-	-	Pass
Airbus Fuel Resistance to ISO 1817 - No separation or cracks of ID Labels	-	Pass	-	Pass	-	-
Color shade to ASTM 4471 & Airbus spec (DAN1172/1174) Transparent liquids	-	Pass	-	Pass	-	-
Airbus DI Water Resistance - Pass no separation or cracks on ID	-	Pass	-	Pass	-	-
Sheer Strength	-	> 3.9	-	> 3.9	-	> 3.9
Elongation Break	-	> 200	-	> 200	-	> 200
Heat Force Cure	-	2-HR	-	2-HR	-	2-HR
ASTM 2832 - Solids Content Non-volatile	-	Pass	-	Pass	-	-
UVB @300 hours Resistant to ASTM G154-No degradation of the coating / Nylon will yellow slightly over time	-	Pass	-	-	Pass	-

*** Always check with your own internal engineering department to ensure materials you intend to force cure can withstand the temperatures listed on the Nycote table.*

PERFORMANCE DELIVERY

RESISTANCE TO FLUID TESTED AS EXCELLENT (30 days immersion @ 75° F)	**ADHESION CHARACTERISTICS TESTED AS EXCELLENT**
JP-4, JP-5, JP-8, JP-10	Untreated Aluminum
Gasoline	Chem-filmed (Irradiated) Aluminum
Kerosene	Glass
Skydrol	Anodized Aluminum
100% RH @120° F	Fiberglass
Distilled Water	Zinc Chromate Primed Aluminum
Tap Water	Synthetic Rubber
Salt Spray	Metals / Composites / Fabrics
80% JP-4 Bacteria Laden Distilled Water	Titanium / Stainless Steel / Magnesium Alloy
H2O Immersion Composite (Submersed 7 days)**	Carbon Composites / Tin / Vinyl
H2O Immersion Metal**	PTFE / Viton / TPU
Potassium Formate Submersion 24-hours	Adhesion measuring by adhesion tape test JAW ISO 2409 Dry Test Classification Result 0 *(0 indicates best performance on a scale f 0-3)***
Potassium Acetate Submersion 24-hours	

**Additional testing may change data*

NYCOTE® LABORATORIES CORPORATION
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Nycote® Technological Product Information

Nycote provides clear hybrid nylon polymer coatings to protect assets with an easy-to-apply Solution.

Nycote® is a modified liquid-nylon coating that provides protection to overcome material limitations and guard metals, plastics and composites from wear, corrosion, friction and conductivity. Nycote® products are used around the world by leading manufacturers such as Boeing, Airbus, Embraer, Honeywell, Collins and BAE Systems and others.

Features and Benefits:

- Simple surface preparation for rapid application
- Easily applied by brush, spray, roll-on or dip method
- Single source protection against salt spray, oxidation, conductivity and other corrosive elements
- Can be applied as a resin fiber reinforced composites
- Quickly dries to a pinhole-free continuous film
- Self-leveling formulation for a uniform appearance
- EU/IATA/Reach regulation compliant; rapid global delivery (NOT SVHC)
- Custom tinting available



NYCOTE® 7-11



NYCOTE® 7-11 DARK BLUE



NYCOTE® 88



NYCOTE® 99


NYSAFE-AV® 900


NYSAFE-AV® 700


NYGONE®

Flame Test Results:

- Per FAA Appendix F and to FAR 25.853; 25.855; 25.1713 - PASS
- 60 sec burn/vertical - 15 sec extinguish time / 6” burn length - PASS
- 12 sec burn/vertical - 15 sec extinguish time / 8” burn length - PASS
- 30 sec burn/vertical @45° angle - 15 sec extinguish time - PASS
- 30 sec burn/vertical @60° angle - 30 sec extinguish time / 3” burn length - PASS
- OSU Rate of Heat Release in accordance with 14 CFR 25.853(d) - PASS

New Nycote Applications:

Corrosion

- Aircraft Cockpit, Windshield
- Aerospace tools / Nylon protection to prevent abrasion
- Landing gear and wheel wells
- TPU- Fuel Bladder

Electrical

- Probe Sensor
- Pneumatic activators
- TAT Sensors
- Landing gear and wheel wells
- Printed Wiring Assemblies

Aesthetic

- High touch aircraft surface prevention of microbial spread, wear and tear.

Specifications

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Product	Purpose	Specifications
NYCOTE® 7-11	Nycote 7-11 shields materials from corrosion, friction and conductivity. It can be applied by spray, dip, brush or roll on methods and quickly dries to a pinhole-free continuous film. One part.	**ASTM D445, *ASTM D1084, *ASTM D-1400, *ASTM D-1475, *ASTM 2832, *ASTM-B117-11, *ASTM D-1310, *ASTM D4060, *ASTM G21, *BS7225, *D471, *D7901, *DMS1850, *DWG55135, *ESE RPT-7456-015, *FED-STD-141, *IPC-CC-830C, *IPC-TM-650, *ISO-1817, *ISO-9116, *ISO 22196, *MC5014, *MC9014, Method 6192, *MIL-DTL-27422F *MIL-DTL-5578D, *MIL-H-5606, *Mil-I-46058, *MIL-T-52983G, *NAS1611 & NAS1613, *NAS1613, *PCS5157, *SAE AMS-22725, *SAE-AMS-S-4383, *SAE AMS-S-8802*
NYCOTE® 7-11 Dark Blue MEP	Nycote® 7-11 Dark Blue was designed for EMBRAER Aircraft to specifically meet their requirements. Just like Nycote 7-11, 7-11 Dark Blue also provides excellent protection against corrosion, friction and conductivity.	**ASTM 2832, *ASTM-B117-11, *ASTM D445, *ASTM D1084, *ASTM D-1310, *ASTM D-1400, *ASTM D-1475, *ASTM D4060, *ASTM G21 , *BS7225, *D471, *D7901, *ESE-RPT-7456-015, *FED-STD-141, *IPC-CC-830C, *IPC-TM-650, *ISO-1817, *ISO-9116, *ISO 22196, *MEP 10-057G, Method 6192, *MIL-DTL-5578D, *MIL-DTL-27422F, *MIL-H-5606, *Mil-I-46058, *MIL T-52983G, *NAS1611 & NAS1613, *SAE-AMS-S-4383, *SAE-AMS-S-8802*
NYCOTE® 88	Nycote® 88 shields materials from corrosion, friction and conductivity. It can be applied by spray, dip, brush or roll on methods and quickly dries to a pinhole-free continuous film. Nycote® 88 easy-to-use component in two parts.	**80-T-35-5218, *ASTM D445, *ASTM D4060, *ASTM-B117-11, *BAC589, *BAC5153, *BSS7010, *D7091, *DAN1172, *DAN1174, *DWG450327, *I+D-P186C, *ISO-1817, *ISO-9116, *MC5014, *MC9014, *PCS5751, *SAE-AMS-27725, *SAE-AMS-S-4383, *TN10003M, *TNA00710050*
NYCOTE® 99	Nycote® 99 Ecoshield shields materials from corrosion, friction and conductivity. It can be applied by spray, dip, brush or roll on methods and quickly dries to a pinhole-free continuous film. One part.	**ASTM 2832, *ASTM B117-11, *ASTM D445, *ASTM D1084, *ASTM D-1310, *ASTM D-1400, *ASTM D-1475, *ASTM D4060, *ASTM G21, *BS7225, *D471, *D7901, *DMS1850, *DWG55135, *ESE RPT-7456-015, *FED-STD-141, *IPC-CC-830C, *IPC-TM-650, *ISO-1817, *ISO-9116, *ISO 22196, *MC5014, *MC9014, Method 6192, *MIL-DTL-5578D, *MIL-DTL-27422F, *MIL-H-5606, *Mil-I-46058, *MIL-T-52983G, *NAS1611 & NAS1613, *PCS5157, *SAE AMS-22725, *SAE-AMS-S-4383, *SAE AMS-S-8802*
Nysafe-AV 900	Nysafe-AV 900 is an effective anti-viral permanent surface coating that has proven to disrupt SARS-CoV-2 cells. This coating provides antimicrobial and biocidal protection on high-touch surfaces while being safe for human touch. One Part.	**ASTM G21, *ISO22196, *MIL-DTL-5578D, *MIL-DTL-27422F, *MIL-T-52983G*
Nysafe-AV 700	Nysafe-AV 700 is an effective anti-viral permanent surface coating that has proven to disrupt SARS-CoV-2 cells. This coating provides antimicrobial and biocidal protection on high-touch surfaces while being safe for human touch. One Part.	**ASTM G21, *ISO22196, *MIL-DTL-5578D, *MIL-DTL-27422F, *MIL-T-52983G*
NYGONE	Nygone removes polymer coatings from surfaces.	Contact sales@nycote.com for more information

Custom tints also available upon request.

sales@nycote.com

FOR MORE INFORMATION
call Nycote Laboratories Corporation at (818) 764-9498 / **Nycote.com**

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