



**THE LEADER
IN CORROSION
PREVENTION**



**THE NYCOTE[®]
PERFORMANCE
ADVANTAGE**

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.

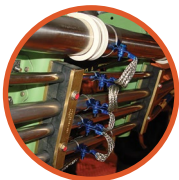


**NYCOTE EXAMPLE
APPLICATION AREAS**

**PROVEN & TRUSTED
BY MASS TRANSIT &
DEFENSE INDUSTRY
LEADERS**



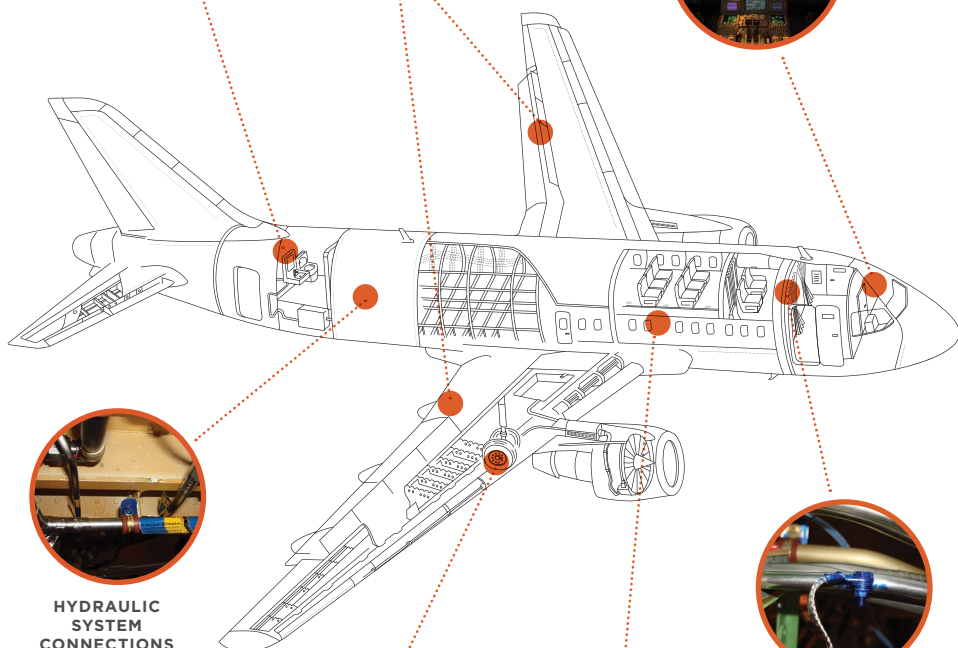
**ELECTRIC
GROUNDING
CONNECTIONS,
PLUMBING &
GALLEYS**



**HYDRAULIC
CONNECTIONS,
WING FLAPS**



COCKPIT



**HYDRAULIC
SYSTEM
CONNECTIONS**



**AIRFRAME/STAIR
CONNECTIONS,
PASSENGER
ENTRY DOORS**



WHEEL WELL



**FLOOR FRAMING, PLATE/
BOLT CONNECTIONS**



WE'VE GOT YOU COVERED.

Contact us today to learn more about how Nycote's high-performance coatings can protect your assets in all mass transportation industries.

NYCOTE.COM | (818) 764-9498 | SALES@NYCOTE.COM

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

SPECIFICATIONS

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.	<i>*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, *PCSS157, *SAE AMS-22725, *SAE-AMS-S-4383, *SAE AMS-S-8802</i>
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.	<i>*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</i>
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.	<i>*80-T-35-5218, *ASTM D445, *ASTM D4060, *ASTM-B117-11, *BAC589, *BAC5153, *BSS7010, *D7091, *DAN1172, *DAN1174, *DWG450327, *I+D-PI86C, *ISO-1817, *ISO-9116, *MC5014, *MC9014, *PCSS5751, *SAE-AMS-27725, *SAE-AMS-S-4383, *TN10003M, *TNA00710050</i>
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.	<i>*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, *PCSS157, *SAE AMS-22725, *SAE-AMS-S-4383, *SAE AMS-S-8802</i>
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.	<i>*ASTM G21, *ISO22196, *MIL-DTL-5578D, *MIL-DTL-27422F, *MIL-T-52983G</i>
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.	<i>*ASTM G21, *ISO22196, *MIL-DTL-5578D, *MIL-DTL-27422F, *MIL-T-52983G</i>
NYGONE	Nygone removes polymer coatings from surfaces.	Contact sales@nycote.com for more information

Custom tints also available upon request.

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	-70° F to 300° F (-56° C to 148° C)		-70° F to 300° F (-56° C to 148° C)		-70° F to 400° F (-56° C to 204° C) Will protect above 400°F - Color may darken without coating degradation	
Resin / Film	Resin	Film	Resin	Film	Resin	Film
Color	Clear	-	Clear	-	Clear	-
Viscosity: @ 72° 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	7.430.2 lb.	-	7.430.2 lb.	-	7.430.2 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	-	-
Shear 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 (0 indicates best performance on a scale f 0-3)**
Potassium Acetate Submersion 24-hours	

Result
0

*Additional testing may change data

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