TECHSPRAY®

NEW!

TURBO-COAT™

ACRYLIC CONFORMAL COATING

Designed To Speed Up PCB Production Without Additional Capital Investment.

- Fastest Thermal Cure – Tack-Free in 3 Minutes!
- Faster Throughput without Capital Investment
- Thick Coating – One-Pass Application
- Fast & Easy Rework & Repair
- IPC-CC-830 & MIL-I-46058C Tested
- UL94 V-0 Rated

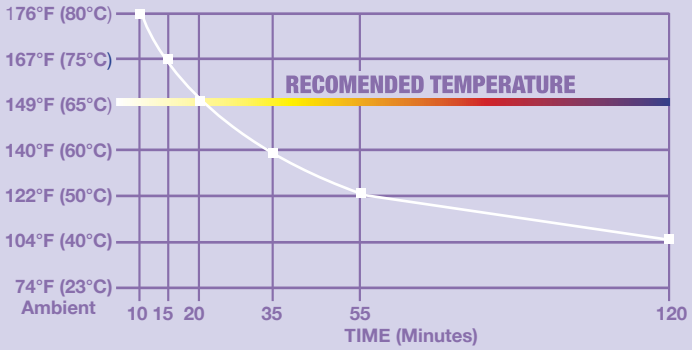
Applications: *Electronic Assemblies for…*

- Automotive
- Aviation
- Consumer Electronics
- Appliances
- Industrial Meters & Control
- ... And Much More

Techspray's new Turbo-Coat™ Acrylic Conformal Coating is designed to speed up board production throughput without additional investment of expensive UV systems or other capital equipment.

Conformal coating cure time is often considered a production bottleneck for PCB assembly operations. Turbo-Coat dries tack-free in 3 minutes, allowing manufactures to handle boards in 1/3 the time of the leading acrylic coating! Full cure can be achieved as quickly as 10 minutes with elevated temperatures.

Full cure time is extremely fast at elevated temperatures. As low as 10-20 minutes!



- Fastest Thermal Cure – Dry to Touch in 3 Minutes!
- Faster Throughput without Capital Investment
- Thick Coating – One-Pass Application
- Fast & Easy Rework & Repair
- IPC-CC-830 & MIL-I-46058C Tested
- UL94 V-0 Rated
- Crystal Clear & Glossy Finish
- UV Indicator for Black Light QC Inspection
- Toluene & Xylene Free
- Adjustable Sprayhead *(Aerosol)*

Like all Techspray conformal coatings, Turbo-Coat can be either sprayed or brushed, or boards can be dipped directly into the coating for a thicker layer of protection.

Techspray offers a variety of coating formulas to match field and engineering requirements. Specifications generally depend on the type of protection needed: e.g. thermal, moisture, and static resistance. See back page for reference chart.

2108-12S	12 oz aerosol	**2108-G**	1 gallon in metal pail
2108-P	1 pint in glass bottle	**2108-5G**	5 gallons in metal pail

CONFORMAL COATING

FINE-L-KOTE SR
Silicone Conformal Coating

Silicone Conformal Coating is the most universal coating, offering protection for a wide variety of environments.

- UL Recognized
- Thermal Resistance — to 392°F (200°C)
- Dielectric Strength — 1100 volts/mil
- Moisture Resistant
- Chemically Resistant
- Vibration Resistant — Flexible
- Adjustable Sprayhead *(Aerosol)*

Specifications: Meets or exceeds MIL-I-46058C Type SR and IPC-CC-830. UL File Number E95150.

Standard Viscosity — 4-10 CPS

2102-12S	12 oz aerosol
2102-P	1 pint in glass bottle
2102-G	1 gallon in metal pail
2102-5G	5 gallons in metal pail

High Viscosity — 60-90 CPS

2102-GHV	1 gallon in metal pail

FINE-L-KOTE HT
High-Temperature Silicone Conformal Coating

High-Temperature Silicone Coating is designed to prevent thermal break-down at high temperatures. Silicone Conformal Coating is the most universal coating, offering protection for a wide variety of environments.

- Designed for High Temperature Environments
- Fast-drying Silicone — 1-Step Process
- Thermal Resistance — to 662°F (350°C)
- Dielectric Strength — 560 volts/mil
- Moisture Resistant
- Vibration Resistant — Flexible
- Adjustable Sprayhead *(Aerosol)*

Specifications: Meets or exceeds MIL-I-46058C Type SR and IPC-CC-830.

2106-12S	12 oz aerosol
2106-G	1 gallon in metal pail

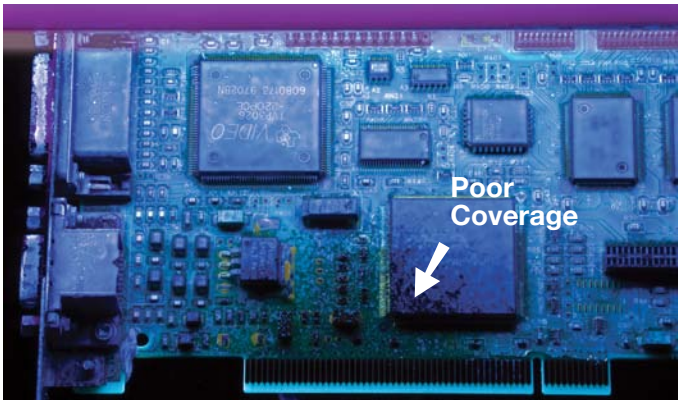
FINE-L-KOTE AR
Acrylic Conformal Coating

Acrylic Conformal Coating is an economical choice that provides a hard protective surface. Commonly used on aviation components.

- Dielectric Strength — 640 volts/mil
- Rigid, Hard Coating
- Adjustable Sprayhead *(Aerosol)*

Specifications: Meets or exceeds MIL-I-46058C Type AR and IPC-CC-830.

2103-12S	12 oz aerosol
2103-G	1 gallon in metal pail
2103-5G	5 gallons in metal pail



OPTI/SCAN FOR UV INSPECTION

Techspray coatings contain Opti/Scan to allow quality control inspection of coverage and evenness of the coating on a PCB. A coated board can be passed under a standard, low-cost UV (black) light, and the coated areas glow. The brighter the glow, the thicker the coating.

FINE-L-KOTE UR
Urethane Conformal Coating

Urethane Conformal Coating is widely used in harsh chemical environments.

- Thermal Resistance — to 248°F (120°C)
- Dielectric Strength — 380 volts/mil
- Moisture Resistant
- Chemically Resistant
- Abrasion Resistant
- Adjustable Sprayhead *(Aerosol)*

Specifications: Meets or exceeds MIL-I-46058C Type UR and IPC-CC-830.

2104-12S	12 oz aerosol
2104-G	1 gallon in metal pail
2104-5G	5 gallons in metal pail

CONFORMAL COATING THINNER

2105-G	1 gallon in metal pail

CONFORMAL COATING REMOVER

2510-N	10ml Pen
2510-P	1 pint in metal bottle

Techspray coatings can be thinned to meet production requirements using Conformal Coating Thinner (2105). Conformal Coating Remover (2510) is also available for rework and repair, although coating is often just burnt through in the soldering process for spot repairs.

TECHSPRAY®

CONFORMAL COATING

	2108 Turbo-AR	2103 AR	2102 SR	2106 HT	2104 UR
Product Benefits	Economical With Fastest Cure	Economical With Fast Cure	Moisture & Vibration Resistant	High Operating Temperature Range	Durable & Chemically Resistant
Thermal Resistant	GOOD	GOOD	BETTER	BEST	GOOD
Moisture /Fungus Resistant	GOOD	GOOD	BEST	BEST	BETTER
Chemical Resistant	GOOD	GOOD	BETTER	BETTER	BEST
Vibration Resistant	GOOD	GOOD	BEST	BEST	BETTER
Ease of Rework	BEST	BEST	BETTER	BETTER	GOOD
Cure type	THERMAL/AIR	THERMAL/AIR	THERMAL/AIR	THERMAL/AIR	THERMAL/AIR
Tack Free Time (minutes)	3-5	15	60	45	15
Accelerated Cure Time/Temp	1 Step 20 Min.@ 65°C	2 Step 20 Min.@ 49°C 30 Min.@ 82°C	2 Step 30 Min.@ 32°C 45 Min.@ 93°C	1 Step 15 Min.@ 45°C	2 Step 20 Min.@ 49°C 30 Min.@ 82°C
Ambient Cure Time	24 Hrs.	24 Hrs.	72 Hrs.	24 Hrs.	24 Hrs.
Mil-I-46058C / IPC-CC-830 Tested	YES	YES	YES	YES	YES
(UL 94) Rated	V-0		V-0		
Solids Content (% by weight)	Aerosol - 7% Bulk - 17%	Aerosol - 6% Bulk - 21%	Aerosol - 11% Bulk - 14%	Aerosol - 16% Bulk - 25%	Aerosol - 7% Bulk - 20%
Viscosity (centipoise)	Aerosol 10-20 cp Bulk 10-30 cp	Aerosol 15-65 cp Bulk 34-54 cp	4-10 cp	10-30 cp	Aerosol 5-80 cp Bulk 10-20 cp
UV Indicator	YES	YES	YES	YES	YES
Operating Temp Range	-65° - 125° C		-65° - 200° C	-40° - 350° C	-30° - 121° C
Dielectric Strength	1 kV/Mil	640 V/Mil	1.1 kV/Mil	560 V/Mil	380 V/Mil
Insulation Resistance (ohms)	4.89×10^{16}	5.43×10^{16}	6.87×10^{15}	1.33×10^{16}	1.78×10^{16}
Shelf Life	12 Months	12 Months	12 Months	12 Months	12 Months