



Conductive Containers Incorporated

1378-SC Static Dissipative Solvent Based Coating
FOR INDUSTRIAL USE ONLY

DESCRIPTION:

1378-SC is a **static dissipative** thermoplastic polyurethane coating used to seal unskinned polyurethane foams. 1378-SC can also be used on molded polyurethane and closed cell foam containing vinyl where ESD safe surfaces are needed.

OTHER FEATURES INCLUDE:

Excellent flexibility, scuff resistance (eliminated FOD), cushioning and non-skid properties.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	ASTM	VALUE
Solids: (wt)		14%
Tensile:	D-412	3400 psi
Elongation:	D-412	450%
Temperature use range:		-0° F to 250° F
Block Resistance:		4 hrs. @ 200° F
Conductivity:		$10^7 - 10^9$
Shelf Life:		1+yrs. @ 77F Unopened Container
Finish:		Satin
Chemical resistance:		
Acids, alkalines, alcohols:	D-1308	Excellent
Petroleums:	D-1308	Very Good
Ketones:		Limited
Coverage:		90 sq.ft./gal. at 3 mil

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SURFACE PREPARATIONS:

All surfaces to be coated must be free of any oils, dust or particles.

USE ADEQUATE VENTILATION.**MIXING INSTRUCTIONS:****QUALITY CONTROL RECOMMENDATIONS FOR SPRAY APPLICATIONS.**

1378-SC may thicken/settle during storage, requiring thorough remixing before use each day.

Avoid making solvent additions before mixing. Check viscosity. Some adjustments may be necessary for your particular use. Contact technical service for specific applications.

Prime coat: Set pot pressure at 15-20psi and atomizing at 10-20psi, open pattern adjustment for a 2" - 4" pattern at 6"-10" from surface. Aim spray gun at foam and fully trigger spray gun. Open material adjustment until a uniform, wet splatter appears on the foam. The wet splatter should melt or flow into the surface of the foam. Coat all sides (except bottom) with an overlapping motion. Make sure all corners and edges are thoroughly primed. The prime coat should be wet to the touch but should not completely color or cover the foam. Its purpose is to wet or prime the surface for the sealing coat, a necessity for proper adhesion.

Seal coat: After the prime coat has been applied, immediately begin sealing the foam by only partially pulling the trigger back from its previous setting until a dry, web coating appears. This seal coat should appear lighter in color than the prime coat. Hold gun approximately 6"-10" from surface and use an overlapping motion, being sure to completely seal the surface. If seal coat is applied too dry, poor adhesion will result. If applied too wet, sealing surface may become difficult. Again, seal all sides (except bottom), being sure to check entire surface for complete seal.

Finish coat: After seal coat has been applied, immediately begin applying the finish coat by fully triggering spray gun as in prime coat. Holding the gun 6"-10" from surface, apply a uniform splatter coat using an overlapping motion. Apply the finish coat as desired in thickness and texture. The finish coat is necessary to increase seal coat strength and durability. Allow the finished coated part to dry to the touch (see caution), minimum 5 minutes, then return to prime coat, seal coat, and finish coat bottom of part. Follow instructions and be sure to pay close attention to corners and edges on all steps.

NOTE: To accelerate final drying, place coated object in ventilated oven at 100°F-140°F for 5 minutes. Make sure heat source is safe for this use and that you ventilate properly. To increase coating speed, you may increase atomizing pressure; open material adjustment and pattern adjustment to your comfort level.

RECOMMENDED EQUIPMENT AND SETTINGS:

Binks® model 2001/ 95 gun

Nozzle: 66SS

Cap: 66SD

Needle: 565

Material: 25psi

Atomization: 30-50psi

Dilution: none required

Clean up: Acetone and Methyl Ethyl Ketone

HINTS: Always mix before spraying. Avoid excessive air movement, heat or humidity. Always use proper ventilation and protection.