

Conductive Coatings

ELECTRICALLY CONDUCTIVE ACRYLIC AND POLYURETHANE PAINTS

U.S. Customary
[SI Metric]

GENERAL DESCRIPTION

TECKNIT manufactures a highly conductive acrylic and polyurethane paints filled with silver. These coatings provide a cost effective method for shielding and grounding plastic enclosures, which are susceptible to EMI, and other applications requiring a flexible protective shield.

SHELF LIFE AND STORAGE RECOMMENDATIONS

It is recommended the ACRYLIC-1 paint be used within six months of the manufactured date and the POLYURETHANE paints be used within nine months of the manufactured date. All conductive coating containers should be stored in the "upside-down" position and at a temperature between 50°F and 86°F [10°C and 30°C]. **DO NOT FREEZE CONDUCTIVE COATINGS.**

PAINT PREPARATION

Before and during use, CONDUCTIVE COATINGS should be thoroughly stirred. Each component of the two and three part polyurethane coatings should be stirred prior to combining. The components of the two and three part systems are supplied as a premeasured kit.

SAFETY AND USAGE CAUTIONS

TECKNIT CONDUCTIVE ACRYLIC AND POLYURETHANE PAINTS contain a flammable solvent and should be used in a well ventilated area. Avoid direct skin contact and inhalation of vapors. Prevent contact with eyes. Do not use near open flame. Industrial use only. Some individuals may experience skin irritation - wash with mild soap and rinse with clear water. Contact physician should irritation occur.

SURFACE PREPARATION

To ensure the best electrical and mechanical reliability, remove all grease, oils, dirt, mold releases and foreign matter. Preparation should be in accordance with standard practice for one-coat painting. Recommended cleaning agent is alcohol.



RECOMMENDED THINNING

THINNING IS REQUIRED FOR THE ACRYLIC-1 PAINT to achieve the proper consistency when using spray equipment. Thinning increases drying time by two or three fold but assures "wetting out" of the ACRYLIC-1 paint offering optimum electrical properties. Thinner should never exceed 25% by volume. The POLYURETHANE coatings can be used with spray equipment as supplied. It is not recommended to thin the POLYURETHANE COATINGS. Toluene can be used for solvent cleaning the ACRYLIC-1.

ORDERING INFORMATION

Small quantities can be shipped within one week after receipt of order. To order TECKNIT conductive paint, specify quantity and part number. For additional assistance, or for scheduling large quantity shipments, contact your nearest TECKNIT area representative or factory location.



SPECIFICATIONS

MATERIAL DESCRIPTION

• Number of Components	One	Two
• Resin	Acrylic	Polyurethane
• Filler	Ag/Glass	Ag

AS SUPPLIED

• Color	Silver Gray	Metalic Gray
• Consistency	Thin Paint	Thin Paint
• Final Condition	Durable Film	Flexible Film
• Mix Ratio	N/A	75.5 : 24.5
• Volume	16.4 in. ³ /115 in. ³	11.4 in. ³
• Weight	16 oz./128 oz. (1 gallon)	12 oz.
• Pot Life @ 25°C	30 minutes	30 minutes
• Shelf Life, unopened container	6 months	9 months
• Full Cure	168 hours @ RT	7-21 days @ RT

CURED*

• Surface Resistivity, (QA-1074), max. OMS	1.0 per square	.06 per square
• Coverage (Approx.) at Recommended 0.002" thick	56 sq. ft./400 sq. ft.	39 sq. ft.
• Temperature Range	-65°F to +298°F [-54°C to +134°C]	-67°F to +347°F [-55°C to +161°C]

PART NUMBERS

• Transportation Class	73-00025/73-00081 Flammable	73-00008 Flammable
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* 7 days @ 25°C

