



TECHNICAL DATA SHEET

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DOLPH-SPRAY® ER-44

RED INSULATOR

PRODUCT DESCRIPTION

ER-44 is an economical, high quality polyurethane electrical insulator. It affords excellent coverage and protection for rebuilding and manufacturing applications. Also available in bulk as **SYNTHITE® ER-44**

FEATURES & BENEFITS

- Fast drying
- Excellent adhesion
- Oil and moisture resistant
- Abrasion resistance
- Easy aerosol can spray application
- Smooth, semi-gloss opaque finish
- Excellent chemical resistance
- Tough, flexible film
- Excellent coverage and protection

TYPICAL APPLICATIONS

- Field Coils
- Control Coils
- Motor Frames
- Switch Bases
- Solenoid Coils
- Buss Bars
- Electrical Connectors
- Fuse Tubes
- Commutator Ends
- Porcelain
- Collector Rings
- Finger Blocks
- Molded Bakelite
- Circuit Boards
- Controller Shafts
- Soldered Joints

TYPICAL PROPERTIES

Physical

Color /Appearance		Red
Density @ 77°F (25°C), Lbs/gal		8.5 – 9.0
Viscosity @ 77°F (25°C) Brookfield Viscometer cps		250 – 450
Flash point		81°F (27°C)
Cure Time @ 77°F (25°C) on Strip, min.	Set to Touch	10
	Tack Free	30
Film Build, mils/side, ASTM D-115		1.5 – 2.0
VOC, (calculated)		45%

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Electrical

Dielectric Strength, ASTM D 115, volts/mil	Dry	1,900
	Wet	1,300

Chemical Resistance

Water	Good
Acid (10% Sulfuric Acid)	Good
Alkali (1% Sodium Hydroxide)	Good
Salt Water	Good
Oil, ASTM D-115	Passed
Corrosive Effect on Copper	None

APPLICATION GUIDELINES

Dolph Spray ER-44 may be conveniently applied from the aerosol can. ER-44 generally covers in one coat, but if a higher build is desired, we suggest the use of multiple thin coats to prevent running and dripping. The total film thickness should be kept to not more than 1.5-2 mils per application per side. This allows for complete solvent release and proper cure. For optimum chemical and abrasion resistance, allow to air dry for at least 24 hours.

SPECIAL PRECAUTIONS

Care should be taken to keep the spray area clean. Filters and other waste from the area should be soaked in water and disposed of in safety containers.

STORAGE AND SHELF LIFE

Store in a cool (65-75°F, 18-24°C) dry place away from direct sunlight.

Shelf Life (Bulk) - 1 year @ 70°F (21°C).

Shelf Life (Spray) - 18 months @ 70°F (21°C).

SAFETY AND ENVIRONMENT

See Material Safety Data Sheet

AUTHORIZED DISTRIBUTOR