



TECHNICAL DATA SHEET

JOHN C. DOLPH COMPANY

P.O. Box 267
320 New Road
Monmouth Junction, NJ
08852

Ph:(732) 329-2333
Fax:(732) 329-1143
info@dolphs.com
www.dolphs.com

SYNTHITE® EB- 41

BLACK AIR DRY URETHANE VARNISH

PRODUCT DESCRIPTION

EB-41 is a high temperature; fast cure, air dry, polyurethane varnish, and is an excellent insulator coating for all electrical and electronic parts. SYNTHITE® EB-41 is also available in aerosol as DOLPH - SPRAY® EB-41.

FEATURES & BENEFITS

- Fast drying
- Ease of Application
- High temperature rating
- Excellent chemical resistance
- Excellent hiding power for rebuilding and manufacturing applications
- Oil and moisture resistant
- Superior abrasion resistance
- Excellent adhesion

TYPICAL APPLICATIONS

- Field Coils
- Control Coils
- Motor Frames
- Switch Bases
- Molded Bakelite
- Electrical Connectors
- Collector Rings
- Fuse Tubes
- Solenoid Coils
- Controller Shafts
- Printed Circuit Boards
- Commutator Ends
- Porcelain
- Soldered Joints
- Finger Blocks
- Oil reservoir interior
- Bussbars
- Stator Coil End Turns

TYPICAL PROPERTIES

Physical

| | |
|---|-----------------------------------|
| Color /Appearance | Black |
| Density @ 77°F (25°C), Lbs/gal | 8.5 – 9.0 |
| Viscosity @ 77°F (25°C) Brookfield Viscometer cps | 200 – 400 |
| Flash point | 81°F (27°C) |
| Cure Time @ 77°F (25°C) on Strip, Min. | Tack Free Set to Touch |
| | 10 30 |
| Film Build, mils/side, ASTM D-115 | 1.5 – 2.5 |
| Thinner (Solvent) | T-200X |
| VOC Content, ASTM D 6053, lbs/gal | 4.4 |
| VOC aerosol (calculated) | 47% |

All statements, technical information and recommendations related to Sellers' products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before using the product, the user should determine the suitability of the product for its intended use. The user assumes all risks and liabilities whatsoever in connection with such use. The statements contained herein are made in lieu of all warranties, expressed or implied. Seller shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use or inability to use its products. The sole liability of John C. Dolph Co., Inc. for any claims arising out of the manufacture, use or sale of its products shall be for the buyer's purchase price.

Electrical

| | | |
|--|-----|-------|
| Dielectric Strength, ASTM D 115, volts/mil | Dry | 1,800 |
| | Wet | 1,200 |

Chemical Resistance

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

APPLICATION GUIDELINES

Stir the EB-41 to mix the pigment because there may have been some settling. Apply by brushing, dipping or spraying. EB-41 is used as supplied in many applications or may be thinned as required with T-200X. For spraying applications, it is usual to thin 20 - 25%.

The film thickness should be kept to no more than 2.0 mils per side per application. This allows for complete solvent release and proper cure. EB-41 will air dry so that it can be handled in 30 minutes. For optimum chemical and abrasion resistance, allow to air dry for at least 24 hours.

SPECIAL PRECAUTIONS

When EB-41 is applied by spray methods, 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