



- TECHNICAL DATA SHEET -

**SYNTHITE EB-43/387-D
BLACK INSULATOR**

DESCRIPTION

SYNTHITE EB-43/387-D is a protective high temperature insulating enamel that dries very quickly, forming a tough and flexible film with excellent heat and chemical resistance.

It has the following outstanding properties:

- Very fast air drying.
- UL Recognized (file OBOR2.E317427 and OBJS2.E317429)
- Excellent chemical resistance.
- Oil and moisture resistant.
- Hard, smooth, abrasion resistant film.
- Good adhesion.
- Good electrical properties

TYPICAL APPLICATIONS

Stators	Form Wound Coils	Transformers
Printed Circuit Boards	Resistors	Bus bars

CHARACTERISTICS

Physical properties	
Colour	Black
Specific gravity @ 25°C	1000±30 g/l
Viscosity, Ford Cup n. 4 @ 25°C	60-80"
Viscosity, ISO Cup n.5 @ 25°C	75-110"
Build up, D.F.T. (ASTM D-115-55)	75-100 µm
Diluent	Dolph's T-200
Air-drying time (on a copper plate)	Set to touch: 60'
Corrosive effects on copper	None

Electrical Properties	
Dielectric Strength (on 25 µm thickness dry film) ASTM D-115	2000 Volts
Dielectric Strength after 24h.dipping into water (on 25 µm thickness dry film)	1200 Volts
CTI according to IEC 60112	600 M
Arc resistance (ASTM D-495) in a thickness >60 µm	> 200"

Thermal class according to UL 1446		
Magnet Wire	Twisted Pairs	Helical Coils
MW 24-C	155°C	155°C
MW 28-C	130°C	130°C
MW 35-C	180°C	180°C



Chemical resistance (on a 40 micron thickness dry film. Drying time 24h @ RT + 24h @ 60°C)			
ISO 2812 Method 2, 168h exposure	Evaluation according to ISO 4628/2-3-4		
	Blistering	Rusting	Cracking
Water	0	0	0
Acid (10% Sulfuric Acid)	0	0	0
Alkali (1% Sodium Hydroxide)	0	0	0
Salt Water	0	0	0
Resistance to Transformer oil IEC 60296, ASTM D 115-55			Test Passed
Corrosion resistance (salt spray) ISO 9277			200 h
Humidity resistance, ISO 6270			72 h

APPLICAZION GUIDELINES

SYNTHITE EB-43/387-D dries very quickly to a uniform, glossy finish that gives a superior abrasion resistance and an excellent adhesion to most surfaces.

SYNTHITE EB-43/387-D is supplied with a viscosity suitable for application by brush. For spraying application, it must be thinned with 15% about of Dolph's T-200 thinner.

STORAGE AND STABILITY

Store in a cool dry place (max 30°C) away from direct sunlight. Protect from moisture and humidity.
Shelf life is 24 months when stored in closed original container at max 30°C.

HANDLING PRECAUTIONS

Use in well ventilated area, avoid contact with skin and eyes and wear protective clothes.
For more details, see the SDS.

Warning: All the information and application instructions concerning this product are based on technical specifications that we consider reliable, and are provided by way of example, according to our application experience. They do not establish any guarantee but only represent a starting point subject to alterations, according to the application and the kind of material to be treated. Before the product's use the utilizer must determine the suitability for the intended use undertaking all risks and responsibility for whatever may happen in connection with the application. The producer and/or seller will not be considered responsible for any accident, loss or damage (immediate or consequent) originating from the use and/or the inability to use the concerned product. Albesiano Sisa Vernici srl reserves the right to change or modify at any time and without any notice the technical specifications of the product described in this data sheet.			
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