SynFlex Elektro GmbH
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Synthite ER-41 Polyurethane enamel varnish

Synthite ER-41 is a red, fast drying enamel varnish.

Attributes

Synthite ER-41 has the following excellent properties:

- very fast drying
- excellent chemical resistance
- oil and moisture resistant
- hard, smooth, abrasion resistant film
- excellent adhesion
- transformer oil resistance ASTM D 115-55
- corrosion and humidity resistance

Application

Synthite ER-41 is mainly applied in:

- stator coils
- transformer coils
- armature coils
- bus bars
- field coils
- control coils
- collector rings
- interior of oil tanks

Standards

- Class H (180 °C) UL-File-Nr. OBOR2.E317427 + OBSS2.E317429
- MW 35-C: 180 °C
- MW 28-C: 130 °C

Delivery forms

5 kg, 25 kg container and spray bottles on request.

Storage

Shelf life of ER-41 is 24 months whenstored in original closed containers at max. 30 °C protected from direct sunlight and moisture.

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Updated 04/24

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Hardening

Air drying time on copper plate: 60 min. set to touch.

Processing

For spraying applications Synthite ER-41 must be thinned with 15 % of Dolph's® T-200 thinner.

It is supplied with a viscosity suitable for application by brush.

Please observe the respective safety data sheet.

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Mechanical	Unit of measure	Conditions	Value	Test method
Specific density	g/l			
Viscosity	s	25 °C	90-120	Ford Cup 4
Specific density	g/cm³	25 °C	0.9-1.0	
Colour			Red	

Electrical	Unit of measure	Conditions	Value	Test method
Dielectric strength	kV/mm	after 24 h water immersion / 0.025 mm film thickness	48	ASTM D-115
Dielectric strength	kV/mm	dry / 0.025 mm film thickness	80	ASTM D-115

Chemical	Conditions	Blistering	Rusting	Cracking	Test method
Resistance	salt water	no	no	no	ISO 4628/2-3-4
Resistance	water	no	no	no	ISO 4628/2-3-4
Resistance	10 % sulfuric acid	no	no	no	ISO 4628/2-3-4
Resistance	1 % NaOH dilution	no	no	no	ISO 4628/2-3-4

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