

---

## 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 when stored in original closed containers at max. 30 °C protected from direct sunlight and moisture.

---

---

## 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.

Mechanical	Unit of measure	Conditions	Value	Test method
Specific density	g/l			
Viscosity	s	25 °C	90-120	Ford Cup 4
Specific density	g/cm <sup>3</sup>	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

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.

Updated 04/24

