SynFlex Elektro GmbH
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Synthite AC-41 Polyurethane varnish

Synthite AC-41 is an air drying finishing varnishes based on polyurethane.

Attributes

Synthite AC-41 has the following excellent properties:

- fast drying - units can be handled in 30 min.
- easy application (dipping, brushing, spraying)
- hohe Temperaturbeständigkeit
- superior abrasion resistance
- excellent adhesion to most surfaces
- transformer oil resistance ASTM D 155-55
- corrosion and humidity resistance

Application

Typical application areas are:

- Stators
- Rotors
- Transformers
- Resistors
- Capacitors

Standards

Class H (180 °C) acc. UL 1446, MW 35-C, Twisted Pairs.

Delivery forms

- 4.5 kg
- 22.5 kg

Base

Clear

Color

Clear

Storage

Store in cool dry place (max. 30 °C) away from direct sunlight. Protect from moisture and humidity. Shelf life is 36

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Updated 04/24

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months when stored in closed original container at max. 30 °C.

Hardening

Curing is possible in explosion protected environments under a fume hood at ambient conditions:
Air drying times at 25 °C:

- 10 min. dust-dry
- 1 h touch-proof
- 48 h cured

Protection

Cured Synthite AC-41 is biologically inactive and safe to health. Always refer to the safety data sheet and implement common protective measures when processing the varnish.

Processing

When spray-coating with thinner T 200, Synthite AC-41 is adapted to processing viscosities in common manual spraying nozzles. Usually you 20-25 % thinner. It is possible to adjust the viscosity with T200 for dip coating. Before longer air contact, ensure that the dipping bath surface does not become dry by placing a nitrogen blanket. Synthite AC-41 is supplied ready-to-use for brushing application. Recommended coating thickness: less than 30-40 µm. Always observe the specifications on the safety data sheet and relevant safety organisation regulations.

Cleaning

Clean tools with thinner T 200 in time. Maintenance and care of coating equipment, especially cleaning, must be carried out according to operational requirements. Always refer to the user manual of the equipment.

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Mechanical	Unit of measure	Conditions	Value	Test method
Coating thickness	µm		60-75	ASTM D-115

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

Chemical	Conditions	Blistering	Rusting	Cracking	Test method
Resistance	Water	no	no	no	ISO 4628/2-3-4
Resistance	1% Natrium hydroxide	no	no	no	ISO 4628/2-3-4
Resistance	saltwater	no	no	no	ISO 4628/2-3-4
Resistance	10 % sulfuric acid	no	no	no	
Resistance	no				

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Liquid phase	Unit of measure	Conditions
Dilution		
Viscosity	s	25 °C
Specific density	g/cm³	25 °C
Viscosity	s	25 °C

Liquid phase	Unit of measure	Values	Test method
Dilution		4:1	
Viscosity	s	50-65	Ford Cup 4
Specific density	g/cm³	0.88-0.92	
Viscosity	s	40-60	ISO Cup 6

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