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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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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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