

Conductive lacquer specification



Technical Data

Ambient conditions

Ambient temperature	-40 ... +90 °C
Maximum relative humidity	90 %

Mechanical data

Design	High-quality, two-component polyurethane lacquer for conductive coating
Base material	Glass fibre reinforced polyester resin
Basis for bonding agent	Hydroxy acrylic resin / polyisocyanate combination
RAL colour	similar ... (colour may vary depending on the technical structure)
Glossiness	approx. 18 units at a measurement angle of 60° according to DIN ISO 2813 at 60 mm TSD
Mechanical characteristics	Good hardness, abrasion-resistant, excellent adhesion
Structure of the lacquer (painting system)	Single-layer 50 ... 70 mm
Pretreatment	Ground, dry, stable, free of dust and grease, no separating agent residues
Time between pretreatment and painting	Max. 4 hours

Processing

Mixing ratio	100:15 PUR hardening agent B009033
Pot life	Approx. 6 hours at 20 °C
Thinner	PUR thinner V004965
Application	Compressed air process: 4 ... 5 bar Nozzle size: 1.6 ... 1.8 mm
Processing viscosity	Approx. 15 % thinner agent (V 004965) for cup gun
Processing temperature	Air temperature 10 ... 35 °C, at least 3 °C above dew point Temperature of the coating material min. 10 °C
Drying	Dust-dry: after approx. 30 min. (at air temperature 10 ... 35 °C) Grip-dry: after approx. 5 hours Evaporation time: at least 20 minutes
Recommended layer thickness	50 ... 70 mm
Improvement	Only with original lacquer according to this data sheet, layer thickness 50 ... 70 mm

Standard tests

Climate change	Tests have been made by the lacquer manufacturer with the following results: 5 cycles à 24 hours (Cycle: 90 °C, -40 °C, 40 °C at 90 % humidity) Degree of blistering: m0g0 according to DIN EN ISO 4628 Cross-cut: GT1 according to DIN EN ISO 2409 before or after application of a load Pull-off test: passed according to DIN EN ISO 4624 (plastic parts have been loosened)
Water of condensation	According to DIN EN ISO 6270-2 over a load duration of 670 hours Blistering: m0g0 according to DIN EN ISO 4628 Cross-cut: GT1 according to DIN EN ISO 2409 before or after application of a load Pull-off test: passed according to DIN EN ISO 4624
Irradiation	DIN EN ISO 11341:2004-12 Title (German): Beschichtungsstoffe (paints and varnishes) Artificial weathering and exposure to artificial radiation - Exposure to filtered xenon-arc radiation (ISO 11341:2004); German version EN ISO 11341:2004 Energy: 500 hours 400 kJ/m ² Glossiness change: max. 15 % after 750 hours Colour change: max. 1.65

E9