

ECODUR Struktur

10 : 1.5 with PU hydro curing agent

Data Sheet 1723 / Version 12 / 04.2024

General description

Product	ECODUR Struktur is a high quality water based 2-component PU structured lacquer. It was developed for the indoor use to paint steel and aluminium in a single layer, therefore very economical.
Resin	Acrylate/polyisocyanate
Pigmentation	Organic and inorganic pigments
Usage	Machine construction, plant construction
Properties	<ul style="list-style-type: none">- Very good adhesion- Environmentally friendly- Easy processing- Very good resistance to scratches and chips- Quick drying- Very economical
Degree of gloss	Silk gloss (art. 12066)
Colors shade	RAL, NCS S, according to pattern
Container	1 kg, 5 kg, 10 kg, 20 kg, 220 kg
Storage	Protect against frost. Store in a cool, dry location in well sealed containers. Pay attention to "Use by" date on label.

Processing notes

Mixing rate	By weight: 10 : 1.5 with PU hydro curing agent (art. 11875) The hardener has to be added while stirring. The mix must be stirred well for approx. 3 min. to avoid any loss of quality.
Thinning	If necessary the spray viscosity can be corrected somewhat with a little adjunction of water.
Pot life	Approx. 3 hrs The end of the open time cannot be recognised through a higher viscosity. For the reason the lacquer should not be processed after 3 hours. It is recommended to mix the paint in quantity that can be applied in three hours. Ideal is the processing with a 2K plant.
Application	Conventional spraying
Air - drying	Touch-dry: approx. 70 min Tack-free: approx. 3 hrs Dry-to-handle: approx. 5 hrs Recoatable: approx. 8 hrs Load-bearing: approx. 5 days
Forced drying	Flashing off: approx. 30 min Drying: approx. 60 min at 60°C or 45 min at 80°C
Dry coating thickness	40 - 80 µm
Consumption	Theoretical: 180 g/m ² with 60 µm dry film Practical: 240 g/m ²
EU Directive 2004/42/EG	Valeur limite VOC category A / i 2010: 140 g/l This product contains maximum: 113 g/l

Processing temperature	Not less than +10°C. In order to prevent the build-up of condensation during coating, the surface temperature must be at least 3°C above the dew point.
Cleaning of equipment	Immediately after use with water. Dried residues with universal thinner 5119 (art. 10516).
Special notes	DIN EN ISO 12944 is a binding requirement as regards anticorrosion protection. Water dilutable lacquers should be applied in dry Filmthickness of over a 100um because of the tendency of boiling.

Recommended method

Substrate	Steel, aluminium
Pre-treatment	The substrate must be clean, dry, and free from grease, oil and dust. Welded locations must be thoroughly cleaned and any weld scale removed. Thoroughly degrease, abrade, irradiate to Sa 2.5 according to ISO 8501-1, sweep, phosphatize, chromatize.
Primers	<ul style="list-style-type: none"> – ECOVERN Primer – REAKTIONSGRUND – SYNTOPRIMER – POLYAMOL Primer Plus – KABEDUR Expressfiller (ind.) – KABEDUR Grundierfüller

Technical details

Density	Approx. 1.25 – 1.40 g/cm ³	
Solids	Approx. 58 – 60% weight	Approx. 48 – 50% volume
Flashpoint	ECODUR Struktur	> 21°C
	PU hydro curing agent	> 21°C

Safety data

Safety measures	Refer to the indications on the labels and safety data sheets. The requirements of the SUVA, the Council for accident prevention, have to be respected. Contains flammable solvents and must be kept away from sources of ignition.
Waste disposal	Opened containers, residues or expired material can be brought in particular collection points. The legal guidelines DETEC on the list of waste transport (LVA) in Switzerland, and the European Waste Catalogue (EWC), must be observed.
KABE Recycling	Empty containers and old paints can be returned to KABE in Gossau. Ask for our detailed information brochures.
General information	The information on this technical data sheet relative to the properties and application of the product concerned are made on hand of our knowledge, development and practical experience. Because of the multiple possible applications, it is impossible for us to present them all in detail. Our technical consultants are at your disposal for any question you might have. Furthermore, our general sales and delivery conditions apply. This technical data sheet is revised periodically. If necessary, our sales department will confirm the validity of this document.