

AltroGreen EP 1702

Transparent Epoxy Resin

Preliminary datasheet

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Main features

- transparent + crystal clear
- BPA free
- very low viscosity
- air bubble free
- excellent UV stability due to the use of antioxidants and light stabilizers
- no solvents
- no odor
- VOC-free
- phthalate-free
- AltroGreen EP 1702 contains over 90 % of ingredients based on renewable raw materials
- CO₂ savings of over 920 kg CO₂ per ton (compared to NEUKADUR EP 17 mod. 2)

Applications

- artistic / decorative applications
- river tables
- casting resin
- layer thickness with hardener 319 between approx. 0.5 and 5 cm⁽¹⁾
- layer thickness with hardener 321 between approx. 0.1 and 2 cm⁽¹⁾
- layer thickness with hardener 322 approx. 8 to 10 cm⁽¹⁾

Properties in the non-crosslinked state (approx. values)

		AltroGreen EP 1702	NEUKADUR hardener 319	NEUKADUR hardener 321	NEUKADUR hardener 322
Colour		transparent	bluish	bluish	bluish
Mixing ratio	p.b.w.	100	40	40	50
Density (20 °C)	g/cm ³	1.1	0.95	0.95	0.95
Viscosity (25 °C)	mPa·s	1,250	100	200	200

Properties of the mixture (approx. values)

Mixed viscosity (25 °C)	mPa·s		425	550	550
Pot life (20°C)	hours		7 (600 g batch)	1 (100 g batch)	9 (2000 g batch)
Density	g/cm ³	DIN 53479	1.05	1.05	1.05
Curing time depending on layer thickness	hours		16 - 48	12 - 24	48 - 96
Hardness	Shore D	DIN 53505	78	79	78
Glass transition temperature T _g	°C	DSC 204 F1 DIN 51005	*	*	*

*in progress

How to process the material

Mix resin and hardener in the indicated mixing ratio until the compound is homogeneous and process the same at temperatures between 20°C and 30°C.

The pot life depends on the temperature and is at 20 °C and a batch size of 600 g with hardener 319 approx. 7 hours.

For thinner layers we recommend NEUKADUR hardener 321 with a pot life of approx. 1 hour in a 100 g batch. To produce thicker layers we recommend NEUKADUR hardener 322 with a pot life of approx. 9 h in a 2,000 g batch.

For coloring AltroGreen EP 1702 we recommend the AltroColor EP 2000 series. www.altrocolor.de

For release agents, please visit our homepage under <http://www.altropol.de/en/produkte/weitere-produkte/trennmittel>

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Form of delivery

AltroGreen EP 1702	on request
NEUKADUR hardener 319	on request
NEUKADUR hardener 321	on request
NEUKADUR hardener 322	on request

Storage

We recommend keeping the material in tightly closed original receptacles at temperatures of 20 - 25 °C. When duly stored, the material can be used within the shelf life indicated on the labels (the first 2 digits of the batch number indicate the week, the 3rd digit indicates the year).

Measure of precaution

With the aid of the current safety data sheets, which contain physical, ecological, toxicological and other data relating to safety, the user can inform himself on the safe handling and storage of the products.

⁽¹⁾The coating thickness depends on various factors, e.g. geometry of the mold, type of mold, ambient temperature, etc. Therefore, it is recommended to work at room temperature if possible. In some cases, it is recommended to apply the product in layers for thick layers.

Our technical service - in words, in writing or by trials - is given according to the current state of our knowledge. It does however not relieve the customer / user from the duty to check by himself if the products supplied by us are suitable for the intended processes and purposes. Application, use and processing of the products take place beyond our control possibilities and lie therefore exclusively in the area of responsibility of the processor. Any existing property rights of third parties are to be considered. We guarantee the perfect quality of our products in accordance with our general terms and conditions of business. When handling our products you have to observe the legal rules and the rules for the industrial hygiene. As for the rest, we refer to the corresponding safety data sheets.

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