

Vinalkyd 550 PE-T



Orthophthalic unsaturated polyester resin

Description: Tixotroped, with low viscosity, non-accelerated, orthophthalic, medium reactivity unsaturated polyester resin.

Use: Applied for production of fibreglass articles used for boat construction, household, building and industry purposes. The hardening is carried by addition of 0,6 % Co-1% and 1,5% MEKP-50 (Butanox M-50). Reinforcement is made by glass-fibre addition up to 60 % in several layers.

- It can be applied after gel coats;
- It may be pigmented with organic and inorganic pigments;
- Very good wetting properties of glass-fibre;
- It does not flow down, when applied on vertical surface;
- Gives tack-free surface of articles
- On the last coat can be applied topcoat.

Classification: Meets the requirements of EU legislation.

Characteristics

INDEX	NORM
Appearance: (visually)	tixotropic liquid
Non-volatile content, 125°C/1h: (BNS EN ISO 3251)	57 ± 1 %
Gelling time at 20°C: (0,6 % Co-1% and 1,5 % MEKP-50) (BNS ISO 2535)	30-40 min
Viscosity Brookfield at 23°C (sp.2/12rpm): (ISO 2555)	1100-1300 mPa.s
Tixotropic index at 23°C (sp.3, 5/50rpm): (ASTM D 2196-05 (B))	min 2,4

Other data

Density at 20°C: (BNS EN ISO 2811-1)	1,1 g/cm ³
Acid number: (BNS EN ISO 3682)	max 26 mgKOH/g
Flash point: (BNS ISO 2719)	33°C

Physical-mechanical properties

Hardening system: 0,6 % Co-1% and 1,5 % MEKP-50
 Hardening condition: 24 h at room temperature
 Post -curing 16 h at 40°C

	INDEX	NORM
Tensile strength : (BNS EN ISO 527-1,2)		min 69 MPa
Flexural strength: (BNS EN ISO 178)		min 117 MPa
Elongation at break: (BNS EN ISO 527-1,2)		min. 3,1%
Barcol Hardness : (EN 59)		min 48
HDT: (BNS EN ISO 75)		63°C

Application: Unsaturated polyester resin Vinalkyd 550 PE-T has to be homogenized well before use. It is curing with following hardening system: to 1000 g of resin add 6 g Co-1% and 15 g hardener MEKP-50 (Butanox M-50), homogenize mixture well and after that use as intended. The viability of the mixture is from 30 to 40 minutes and depends on the temperature of the resin, as the process of gelling accelerates additionally at temperature higher than 20°C, however low temperature decelerates the time of gelling.

Packaging: In metal conic boxes; metal barrels and cisterns from stainless steel

Storage:

The packed unsaturated polyester resin is stored in closed, dry and fire prevented storage areas, protected from direct sunlight, at temperature up to 25°C.

Storage shelf life - 6 months from the production date

Attention! Don't allow direct contact of organic peroxides with accelerators when using, transporting and storing.

Hygiene, safety work and ecology:

Refer to the Safety Data Sheet for further information on the safe storage, use and handling of Vinalkyd 550 PE-T. The Material Safety Data Sheet (MSDS) should always be read and understood thoroughly before handling the product, and adequate safety procedures should be followed.

The present technical description has the purpose to inform the clients on the quality of our product. The data herein is based on our present best knowledge. We invite our clients before work to check the quality of the product or its adaptation to the base and to make an experimental application. Our clients must be sure, that the present technical description hasn't been changed or replaced by a newer edition.

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