

Vinalkyd 550 PE – R/61

It is orthophthalic, high reactive, non-accelerated, non-tixotropic unsaturated polyester resin design for general purpose glass reinforced application(GRP)

Use: The resin has good mechanical strength properties and suitable for boat construction, car body parts , cabins, constructions and industry purposes. The hardening is carried by addition of Accelerator Co-2% and Hardener 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;
- Very good wetting properties of fibre glass
- Good mechanical properties
- On the last coating might be applied top coat

Classification: Meets the requirements of EU legislation.

CHARACTERISTICS

INDEXES	NORM
Appearance: (visually)	Transparent syrup-like liquid
Gardner color (BNS ISO 4530)	max.2
Viscosity at Brookfield at 23°C: (ISO 2555)	550-850 mPa.s
Acid number: (BNS EN ISO 3682)	max 30 mgKOH/g
Non-volatile content: (BNS EN ISO 3251)	65+1%
Reactivity at 82°C:	
- gel time from 65 to 88°C	4-9 min
- hardening time	5-10 min
- Exothermic peak (BNS EN ISO 584)	min 160°C

ADDITIONAL INFORMATION

Reactivity at 25°C:

- gelling time	7 - 12 min
- hardening time/from gel time to Tmax/ - temperature maximum	5 - 10 min min. 160°C
(Test Method)	

Density at 20°C:

(BNS ISO 2811-1)

1,13 g/cm³

Flash point, covered pot:

(BNS EN ISO 1523)

33°C

Physical-mechanical properties

Hardening system: 1% Co-2% +2% MEKP

Hardening condition: 24h at room temperature

Post -curing 16h at 40°C

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	Value
Tensile strength (BNS EN ISO 527-1,2)	min.70 MPa
Flexural strength (BNS EN ISO 178)	min.140 MPa
Flexural modulus (BNS EN ISO 178)	min. 3400MPa
Elongation at break (BNS EN ISO 527-1,2)	min.2%
HDT (BNS EN ISO 75-1,2)	min.67°C
Hardness at 25°C (Barcol) (ASTM D 2583)	min.50
Water absorption (24 hours) (ISO 62)	max.0.2%

Solubility:	It dissolves in Styrene and Acetone.
Application:	<p>Unsaturated Polyester resin Vinalkyd 550 PE-R hardens after the following hardening system:</p> <p>Add 10 g Co-2% and 20 g MEKP-50(Butanox M-50) to 1000 g resin. The mixture should be well homogenized and then used for preparation of the articles. The viability of the mixture is from 7 to 12 minutes and depends on the temperature of the resin, as the process of gelling accelerates additionally at temperature higher than 25°C, and the lower temperature slows down the time of gelling.</p>
Package:	<ul style="list-style-type: none">- metal conic cans 22 L, with polyethylene insert, of net weight of 20 kg \pm150g;- zined barrels of 200 L , of net weight of 200 kg and allowed diversion of \pm0,5%;- cisterns from stainless steel or Aluminium.
Storage:	<p>Store the packed unsaturated Polyester resin in sheltered, dry and fireproof warehouses, protected from direct sunlight, at temperature up to 25°C.</p> <p>Storage shelf life - 6 months from the production date.</p> <p>Attention! Don't allow direct contact of organic peroxides with accelerators when using, transporting and storing.</p>
Safety instructions, ecology	Check up MSDS

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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