

## VINALKYD 550 PE TALV-LE-B



### Orthophthalic Unsaturated Polyester Resin

- Description:** It is a low viscosity, thixotroped previously accelerated, orthophthalic, medium reactivity unsaturated polyester resin. Contains special additive for decreasing of styrene emissions of up to 2% in a work environment .The resin contains a peroxide indication system, which effects a color change from bluish to pale green after addition of catalyst.
- Use:** Applied for production of fibreglass articles used for boat construction, household, building and industry purposes. The hardening is carried by addition of 2% MEKP-50 (Butanox M-50). Reinforcement is made by glass-fibre addition up to 60 % in several layers.
- Properties:**
- 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;
  - On the last coat can be applied topcoat.
- Classification:** Meets the requirements of the EU legislation.

## CHARACTERISTICS

INDEXES	NORM
<b>Appearance:</b> (visually)	Blue colour tixotropic liquid
<b>Non-volatile content, 125°C/1h:</b> (BNS EN ISO 3251)	56 ± 1 %
<b>Reactivity at 23°C:</b> -gel time -23°C- to Tmax -Exothermic peak (Test Method)	15-25 min 35-45 min. 170-190°C
<b>Viscosity Brookfield at 23°C(sp.2, 12 rpm):</b> (ISO 2555)	800-1000 mPa.s
<b>Thixotropic index (sp.3, 5/50 rpm):</b> (ASTM D 2196-05 (B))	min 2,4

## OTHER DATA

<b>Density 20°C:</b> (BNS EN ISO 2811-1)	1,1 g/cm <sup>3</sup>
<b>Acid number:</b> (BNS EN ISO 3682)	max 26 mgKOH/g
<b>Flash point, covered pot:</b> (BNS ISO 2719)	34°C

## Physical-mechanical properties

Hardening system: 2% MEKP  
 Hardening condition: 24h at room temperature  
 Post-curing 16h at 40°C

Index	Value
Tensile strength (BNS EN ISO 527-1,2)	min.65
Flexural strength (BNS EN ISO 178)	min.125
Hardness at 25 °C : ( ASTM D 2583 )	min.50

**Application:**

The unsaturated polyester resin Vinalkyd 550 PE-TALV-LE-B has to be homogenized well before use. It is hardened with the following hardening system:

Add to 1000 g resin 20 g of MEKP-50 (Butanox M-50). The mixture must be well homogenized and then used for preparation of the details. The viability of the mixture is from 15 to 25 minutes and depends on the temperature of the resin, as the process of gelling accelerates additionally at temperature higher than 23°C, however low temperature decelerates the time of gelling.

**Packaging:**

In metal conic boxes; metal barrels 200; 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 - 4 months from the production date.

**Hygiene, safety work and ecology:**

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

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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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