

## VINALKYD 520 PD – TALE – B



### Orthophthalic unsaturated polyester resin

- Description:** It is a medium reactive, preaccelerated, tixotropic, orthophthalic unsaturated polyester resin. Contains special additive for decreasing of styrene emissions in a work environment. Provides cured laminate a tackfree surface. The resin contains a peroxide indication system, which effects a color change from bluish to pale green after addition of catalyst.
- Use:** The resin has good mechanical strength properties and suitable for fibreglass articles for constructions and industry purposes. The hardening is carried by addition of hardener MEKP-50 (Butanox M-50). Reinforcement is made by glass fibre addition up to 60 % in several layers.
- Very good wetting properties of fibre glass;
  - Has designed for tackfree drying surface;
  - Has good PMMA adhesion (acrylic base);
  - Good mechanical properties;
- Classification:** Meets the requirements of EU legislation.

### CHARACTERISTICS at 25°C

- filled at 40 % with Calcium Carbonate

#### INDEXES

#### NORM

**Non-volatile content,  
1h/125°C:**  
(BNS EN ISO 3251)

min 65 %

**Viscosity Brookfield at 25°C:**  
(sp.3, 60 rpm)  
(ISO 2555)

800-1100 mPa.s

**Tixotropic index at 25°C,**  
**(sp.3, 6/60rpm):**  
 (ASTM D 2196-05 (B))

min 2,5

**Reactivity at 25°C:**  
 (100 g resin + 2,0 g Butanox M-50)  
 - **gelling time**  
 - **temperature maximum/Tmax**  
 (Test Method)

10- 20 min  
max 120°C

## ADDITIONAL INFORMATION

**Density at 20°C:**  
 (BNS ISO 2811-1)

1,1 g/cm<sup>3</sup>

**Flash point, closed pot:**  
 (BNS ISO 2719)

34°C

**Solubility:**

It dissolves in styrene and acetone.

**Application:**

Vinalkyd 520 PD-TALE-B has to be homogenized well before use. It is curing with following hardening system:  
 Add 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 10 to 20 minutes. It 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.

**Package:**

In metal barrels; plastic containers; cisterns from stainless steel.

**Storage:**

Store the packed unsaturated polyester resin in sheltered, dry and fireproof warehouses, protected from direct sunlight, at temperature up to 25°C.  
 The product has to be homogenized well before use.  
 Prolonged storage or storage outside of recommended conditions can influence on liquid resin properties like viscosity and gel time. An addition of 0.5-1.0% Co-1% may be necessary to restore the original potlife.  
 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 520 PD-TALE-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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**Orgachim Resins®**

Ruse 7000, 21 Treti mart Blvd., tel.: +359 82 886 340; fax: +359 82 886 340  
[www.orgachimresins.bg](http://www.orgachimresins.bg)