

## VINALKYD 350 NPP/66



### Neopentyl glycol-isophthalic unsaturated polyester resin, modified with acrylic monomer

**Description:** Vinalkyd 350 NPP/66 is a neopentyl glycol-isophthalic medium reactivity preaccelerated unsaturated polyester resin, modified with acrylic monomer for enhanced light and weather resistance.

**Use:** It is used for the production of “solid surface product“(without gelcoat), polymermarble and gelcoats. The hardening is carried by addition 1,0 % hardener MEKP-50 (Butanox M-50).

- It can be thixotroped;
- Reinforcement is made by glass fibre addition up to 60 % in several layers.
- It can be pigmented with organic and inorganic pigment pastes;
- Unsaturated polyester resins reinforced by glass mat laminate may be applied on top;
- A topcoat may also be applied on it.

**Classification:** In compliance with the requirements of EU legislation.

## CHARACTERISTICS

INDEXES	NORM
<b>Appearance:</b> (visually)	Pink coloured transparent syrup-like liquid
<b>Non-volatile content, 1h/125°C:</b> (BNS EN ISO 3251)	66 ± 2 %
<b>Viscosity Brookfield at 23°C:</b> (sp.3/20 rpm) (ISO 2555)	900 - 1100 mPa.s
<b>Acid number:</b> (BNS EN ISO 3682)	max 14 mgKOH/g

**Reactivity at 20°C:**

(100 g resin + 1,0 g Butanox M-50)

**- gell time**

8-14 min

**- hardening time**

14-20 min

(from gelling time to T max)

**- exothermic peak**

min 150°C

(Test method)

**ADDITIONAL INFORMATION****Density at 20°C:**

(BNS ISO 2811-1)

1,1 g/cm<sup>3</sup>**Flash point, closed cup:**

(BNS ISO 2719)

32°C

**PHYSICAL-MECHANICAL PROPERTIES****Hardening system:**

1,0 % MEKP-50 (Butanox M-50)

**Hardening conditions:**

24 h at room temperatures

Post-curing -16 h at 40 °C

**INDEX****VALUE****Tensile strength:**

(BNS EN ISO 527-1,2)

min 65 MPa

**Flexural moduls:**

(BNS EN ISO 178)

min 3300 MPa

**Elongation at break:**

(BNS EN ISO 527-1,2)

max 2,2 %

**HDT:**

(BNS EN ISO 75-1,2)

min 65°C

**Hardness at 25°C (Barcol):**

(ASTM D 2583)

min 40

**Water absorption (24 hours):**

(ISO 62)

max 0,2 %

<b>Solubility:</b>	Dissolves in styrene, acetone and n-butyl-acetate.
<b>Application:</b>	<p>The unsaturated polyester resin Vinalkyd 350 NPP/66 is hardened with the following hardening system: Add 10 g hardener Butanox M-50 to 1000 g resin. Homogenize the mixture well and use it for preparation of the articles. The viability of the mixture is from 10 to 14 minutes and depends on the temperature of the resin, as the process of gelling accelerates additionally at temperature higher than 20°C, and the lower temperature slows down the gelling time.</p>
<b>Package:</b>	In metal conic cans from 22 l; metal barrels; cisterns from stainless steel.
<b>Storage:</b>	<p>Store the packed unsaturated polyester resin in sheltered, dry and fireproof warehouses, protected from direct sunlight, at temperature up to 25°C. The presence of moisture in air has negative influence to clear appearance of resin Storage shelf life – 4 months from the production date. <b>Attention!</b> Do not allow direct contact of organic peroxides with accelerators when using, transporting and storing.</p>
<b>Hygiene, safety work and ecology:</b>	Refer to the Material Safety Data Sheet for further information on the safe storage, use and handling of Vinalkyd 350 NPP/66. 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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