TECHNICAL DESCRIPTION AUGUST 2014 Cancels and replaces all previous editions

## VINALKYD 450 P

Unsaturate	ed polyester resin	
Description:	It is an orthophthalic, high rea	ctivity unsaturated polyester resin.
Use:	<ul> <li>the boat building, in the house The hardening is carried by (Butanox M–50). The reinford up to 60 %, in several layers.</li> <li>It may applied after the ge</li> <li>It may be pigmented with</li> <li>It may be filled up to 60</li> </ul>	organic and inorganic pigments; % with talc, silica flours and marble powder y) for preparation of articles from polymer
Classification:	Meets the requirements of the	EU legislation.
	CHARACTERIS	TICS
INDEXES		NORM
<b>Appearance:</b> (visually)		
		Transparent syrup-like liquid
<b>Colour Gardner:</b> (BNS ISO 4630)		Transparent syrup-like liquid max 2
	C:	
(BNS ISO 4630) Viscosity Brookfield at 23°	C:	max 2
(BNS ISO 4630) Viscosity Brookfield at 23° (ISO 2555) Acid number:		max 2 950-1250 mPa.s

## **Gelling time at 20°C:** (4% MEKP-50 + 1% Co-1%)

8-16 min

OTHER INFORMATION			
Conditional viscosity, Ø 4 (Test method №8)	4 mm/20°C:	220-260 s	
<b>Density at 20°C:</b> (BNS ISO 2811-1)		1,13 g/cm <sup>3</sup>	
<b>Flash point, covered pot:</b> (BNS ISO 2719)		34°C	
Modifications:		A (accelerated)	
Physical-mechanical properties			
Hardening condition: 24h at r Post –curing: 16 h at			
INDEX		VALUE	
<b>Flexural strength:</b> (BNS EN ISO 178)		min.128 MPa	
HDT: (BNS EN ISO 75-1,2)		min.78°C	
Hardness at 25°C (Barco (ASTM D 2583)	l):	min. 45	
Solubility:	It dissolves in styrene and aceton	ie.	
Application:	Unsaturated polyester resin Vinalkyd 450 P is curing with following hardening system : Add 10 g Co-1% to 1000 g resin. The mixture should be well homogenized and then add 40 g MEKP-50, stir again and use it for preparation of the articles. The viability of the mixture is from 8 to 16 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 time of gelling.		
Package:	In metal conic cans; metal barr steel.	els, plastic containers; cisterns from stainless	

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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.
Hygiene, safety work and ecology:	Refer to the Safety Data Sheet for further information on the safe storage, use and handling of Vinalkyd 450 P. The Material Safety Data Sheet (MSDS) should always be read and understood thoroughly before handling the product, and adequate safety procedures should be followed. Attention! Don't allow direct contact of organic peroxides with accelerators when using, transporting and storing.

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