

VINALKYD 520 PD-60



Unsaturated polyester resin

- Description:** It is a low-viscosity, orthophthalic, with medium reactivity unsaturated polyester resin.
- Use:** It is used for machine laminating in production of plumbing and sewerage pipes (in combination of the resin with fillers, roving, accelerator and hardener) and for polymermarble. Hardening is achieved by adding Cobalt accelerator Co-1% and Hardener MEKP-50 (Butanox M-50).
- Classification:** In compliance with the requirements of EU legislation.

CHARACTERISTICS

INDEXES	NORM
Appearance: (visually)	Transparent syrup-like liquid
Hazen colour: (BNS ISO 2211)	max 300
Brookfield viscosity at 25°C, spindle 3, 50 rpm: (ISO 2555)	300 - 500 mPa.s
Non-volatile content, 125°C: (BNS EN ISO 3251)	61±1,5 %
Reactivity at 25°C: (100 g resin + 1,0 g Co-1% + 1,1 g Butanox M-50)	
- gel time	10-20 min
- hardening time (from gelling time to T max)	8-15 min
-exothermic peak (Test Method)	175-205°C

Acid number:
(BNS EN ISO 2114-A)

max 23 mgKOH/g

ADDITIONAL INFORMATION

Density at 20°C:
(BNS ISO 2811-1)

1,1 g/cm³

Flash point, closed cup:
(BNS ISO 2719)

33°C

Physical-mechanical properties

Hardening system: 1 % Co-1% + 1,1 % Butanox M-50

Hardening condition: 24 h at room temperature

Post-curing 16 h at 40°C

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Value

Hardness at 25°C:
(ASTM D 2583)

min 40 (Barcol 934-1)

Flexural strength:
(ISO 178)

min 120 MPa

Tensile strength:
(ISO 527-1/2)

min 70 MPa

Water absorption (24 hours):
(ISO 62)

max 0,2%

Solubility:

It dissolves in styrene or acetone.

Application:

The unsaturated polyester resin Vinalkyd 520 PD-60 hardens after the following hardening system:

-Accelerator - Cobalt: 1% Co-1%

-Hardener - MEKP-50 (Butanox M-50): 1,1 %

This resin is used for machine laminating of a mixture of a resin, fillers, roving, accelerator and hardener in production of plumbing and sewerage pipes.

Package:

In metal barrels; plastic containers; cisterns made of stainless steel or aluminium.

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Storage:

Storage temperature: up to 25°C.

Store in original, tightly sealed packages in sheltered, dry and fire-protected storage areas, away from direct sunlight and heating appliances.

Storage shelf life - 6 months from the production date in factory-sealed packages.

Storage at higher temperature will reduce shelf life.

Attention! Do not allow direct contact of organic peroxides with accelerators when using, transporting and storing.

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-60. The Material Safety Data Sheet (MSDS) should always be read and understood thoroughly before handling the product, and adequate safety procedures should be followed.

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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