TECHNICAL DESCRIPTION
JUNE 2016
Cancels and replaces all previous editions

VINALKYD 25 PE



Unsaturated polyester resin

Description: It is an isophthalic, medium reactivity, non-accelerated, non-thixotroped unsaturated

polyester resin.

Use: It is used for the production of polyester isophthalic gelcoat, which serves for

making of the face layer of the articles from glass-fibre. The hardening is carried by

addition of accelerator Co-1% and hardener MEKP-50 (Butanox M-50).

• It can be thixotroped;

• It can be pigmented with organic and inorganic pigment pastes;

• Can be on it apply unsaturated polyester resins reinforced with glass.

Classification: Vinalkyd 25 PE correspond to type 1140 to DIN 16 946/2 and is classified in group

2 according to DIN 18 820/1

In compliance with the requirements of EU legislation.

CHARACTERISTICS

INDEXES

Appearance: Transparent syrup-like liquid

(visually)

Gardner colour: max 2,5

(BNS ISO 4630)

Non-volatile content, 1h/125°C: $65 \pm 1 \%$

(BNS EN ISO 3251)

Viscosity Brookfield at 23°C: 600-900 mPa.s

(ISO 2555)

Acid number: max 30 mgKOH/g

(BNS EN ISO 3682)

Gel time at 25°C: 6-12 min

(1% Co-1% and 1,5% Butanox M-50)

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ADDITIONAL INFORMATION

Conditional viscosity, Ø 4 mm/20°C: 150 – 200 s

(Test method № 8)

Density at 20°C: 1,14 g/cm³

(BNS ISO 2811-1)

Flash point, closed cup: 33°C

(BNS ISO 2719)

Modifications: A (accelerated)

PHYSICAL-MECHANICAL PROPERTIES

Hardening conditions:

24 h at room temperatures Post-curing -16 h at 40 °C

INDEX VALUE

Tensile strength: min 77 MPa

(BNS EN ISO 527-1,2)

Flexural strength: min 130 MPa

(BNS EN ISO 178)

HDT: min 90°C

(BNS EN ISO 75-1,2)

Solubility: Dissolves in styrene and acetone

Application: The unsaturated polyester resin Vinalkyd 25 PE is hardened with the following

hardening system:

Add 10 g Co-1% to 1000 g resin, homogenize the mixture well and then add 15 g hardener Butanox M-50, stir again and use it for preparation of the articles. The viability of the mixture is from 6 to 12 minutes and 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 gelling time.

Package: In metal conic cans from 22 l; metal barrels; cisterns from stainless steel.

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Storage:

Store the packed unsaturated polyester resin in sheltered, dry and fireproof

warehouses, protected from direct sunlight, at temperature up to 25°C.

Storage shelf life – 6 months from the production date.

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 25 PE. 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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