

ORGAPOL 175 – 75 BA



Saturated polyester resin

Delivery form: 75% solution in butyl acetate.

Use: Low-viscous “high solid” aliphatic saturated polyester with 5,3% content of hydroxyl groups (solid resin). It is used for formulation of two-component polyurethane lacquers and topcoats for automobile refinishing with a low content of volatile organic solvents (VOC < 420 g/l).

Classification: Meets the requirements of the EU legislation.

CHARACTERISTICS

INDEXES	NORM
Appearance: (visually)	Homogeneous, viscous liquid
Hazen colour, form of delivery: (BNS ISO 2211)	max 40
Non-volatile content, (1g/125°C/1h): (BNS EN ISO 3251)	75±1 %
Viscosity Brookfield at 23°C: (ISO 2555)	1800 - 2500 mPa.s
Acid number of 100% of a resin: (BNS EN ISO 3682)	19 - 23 mgKOH/g
Hydroxyl number of 100% of a resin: (BNS EN ISO 4629)	175 ± 7 mgKOH/g

OTHER INFORMATION

Density at 20°C: 1,05 g/cm³
(BNS ISO 2811-1)

Flash point, covered pot:
(BNS ISO 2719)

33°C

Solubility:

It dissolves in esters, ketons and glycol ether esthers.

Application:

Orgapol 175-75 BA is a linear saturated polyester resin. It is used for formulating two-component colourless lacquers and topcoats with VOC content < 420g/l.

Aliphatic isocyanites are used for hardening at a ratio NCO : OH=1:1. The coatings have a high gloss, light resistance, resistance to chemicals and weathering.

Orgapol 175-75 BA could be combined with Orgacryl 457 C-75 BA at a ratio 10:90-20:80 for automotive refinish 3k paint system.

Polyisocyanate stoichiometry calculation:

$$\text{Polyisocyanate (f.o.d.)} = \frac{42 \times 100 \times \text{OH\% (solid resin)}}{17 \times \text{NCO\% (f.o.d.)}}$$

42= molecular weight of the NCO group

17= molecular weight of the OH group

f.o.d.= form of delivery

Packaging:

In metal barrels; plastic containers; stainless steel cisterns

Storage:

Store in tightly closed packages, in sheltered, dry and well-ventilated warehouses, protected from direct sunlight, at a temperature from 5 to 25°C.

Shelf life – 12 months from production date.

Hygiene and safety work and ecology:

Refer to the Safety Data Sheet for further information on the safe storage, use and handling of Orgapol 175-75 BA. 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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