

ORGACRYL 457 C– 75 BA



Hydroxyl-acrylic copolymer

Supply form:	75% solution in butyl acetate
Use:	Low viscosity acrylic copolymer, that contains OH groups –4,57% content of hydroxyl groups (solid resin), designated for formulation of two component polyurethane lacquers and topcoats for vehicles refinish and refinishing with low content of volatile organic component (VOC < 420 g/l).
Classification:	Meets the requirements of the EU legislation.

CHARACTERISTICS

INDEXES	NORM
Appearance: (visually)	Clear viscous liquid
Hazen colour: (BNS ISO 2211)	max 150
Non-volatile content, 125°C/1 h: (BNS EN ISO 3251)	75±1%
Viscosity Brookfield at 23°C: (ISO 2555)	4000-6000 mPa.s
Acid number: (BNS EN ISO 3682)	max 5 mgKOH/g
Hydroxyl number at 100% resin: (BNS EN ISO 4629)	150±5 mgKOH/g

OTHER INFORMATION

Density at 20°C: 1,0 g/cm³
(BNS ISO 2811-1)

Flash point, covered pot: 27°C
(BNS ISO 2719)

Solubility: Esther, ketone and organic solubility in aromatic hydrocarbons.

Application: Orgacryl 457 C-75 BA is acrylic resin for formulation of two component colourless coatings and topcoats with content of VOC <420g/l. For hardening use aliphatic isocyanates in ratio NCO:OH=1:1. (The resin has very good physical drying properties). The coatings have high gloss, light resistance and resistance to chemicals and atmospheric influences. Orgacryl 457 C-75 BA could be combined with linear polyester (70/30 – 80/20 by weighing) 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

Package: In metal barrels; plastics containers; cisterns from stainless steel.

Storage: Store in tightly closed packages, in sheltered, dry and well-ventilated warehouses, protected from direct sunlight, at a temperature up to 30°C. Shelf life -12 months from the production date.

Hygiene, safety work and ecology: Refer to the Material Safety Data Sheet for further information on the safe storage, use and handling of Orgacryl 457 C-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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