

## BALKYD 350 FA – 60 X



**Short oil alkyd resin-polyol, modified with distilled fatty acids**

<b>Supply form:</b>	60% solution in xylene.
<b>Use:</b>	It is used for production of two-component polyurethane lacquers for wood, primers and topcoats for metal; coatings for wood and metal with acid curing and drying at high temperatures. It contains OH groups – approximately 2,7% (solid resin)
<b>Classification:</b>	Meets the requirements of the EU legislation.

### CHARACTERISTICS

INDEXES	NORM
<b>Appearance:</b> (visually)	Homogeneous clear liquid
<b>Colour Gardner of 50% solution in xylene:</b> (BNS ISO 4630)	max 5
<b>Non-volatile content, 125°C/1h</b> (BNS EN ISO 3251)	60±1 %
<b>Flowing time, funnel 6 mm of 50% solution in xylene at 23°C:</b> (BNS EN ISO 2431)	25 – 35 s
<b>Acid number of 100% of a resin:</b> (BNS EN ISO 3682)	max 10 mgKOH/g

**Hydroxyl number of 100% of a resin:**  
(BNS EN ISO 4629)

90±5 mgKOH/g

## OTHER INFORMATION

<b>Oil content:</b>	35 %
<b>Viscosity Brookfield at 23°C:</b> (ISO 2555)	900-1400 mPa.s
<b>Density at 20°C:</b> (BNS ISO 2811-1)	1,0 g/cm <sup>3</sup>
<b>Flash point, covered pot:</b> (BNS ISO 2719)	36°C

**Solubility:** It dissolves in xylene, esthers and glycol ethers.

**Application:** Balkyd 350 FA – 60 X is used for production of two-component polyurethane lacquers for wood, primers and enamels for metal through isocyanic hardening. The coatings have a very good resistance to water, chemicals, atmospheric impacts, high gloss, adhesion, hardness and stability to wear. In combination with amino resins coatings for drying at high temperatures and airy drying coatings with acid curing are achieved. They have a very good resistance to atmospheric impacts, high gloss, adhesion and hardness. The formulated coatings may be exploited in the conditions of tropical climate.

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

OH % (solid resin)=2,7 %

**Packaging:** In metal barrels; plastics containers; cisterns from stainless steel

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- Storage:** Store in well 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 Balkyd 350 FA – 60 X. The Material Safety Data Sheet (MSDS) should always be read and understood thoroughly before handling the product, and adequate safety procedures should be followed.

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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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