

SYNOLAC® 377 BA 70

INDUSTRIAL WOOD

ARKEMA COATING RESINS

Product Application details

SYNOLAC® 377 BA 70 is a fatty acid modified hydroxyfunctional polyester resin based on special fatty acids, designed to crosslink with aromatic and/or aliphatic polyisocyanates for 2 pack-polyurethane coatings with excellent flexibility and adhesion.

Two pack-coatings based on SYNOLAC® 377 BA 70 are especially suitable for wood finishes in the furniture industry, selecting the appropriate polyisocyanates.

Polymer Type

- Solventborne Polyester

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	69 - 71
Reduced Viscosity at 20°C, mPa.s 60 % in Butyl acetate (ISO 12058-1)	390 - 450
Iodine Colour index, (DIN EN 1557)	5 max
Acid value, mg KOH/g (ISO 2114)	20 - 30

Other Characteristics¹

Volatile	Butyl acetate
Flash point, °C (ISO 3679)	28
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.05
Hydroxyl Content, %	5.7

Note: Acid value and/or Hydroxyl value quoted relative to solid resin

¹ The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

Formulation Guidelines

RECOMMENDATIONS FOR USE

SYNOLAC® 377 BA 70 can be cured with aliphatic polyisocyanates like Desmodur® N series (1) but it is also compatible with other types like Desmodur® L (1), HL (1), IL (1).

The reaction ratio is calculated from the respective equivalent weight or hydroxyl and isocyanate content of the reactants. The relationship is:

$$\text{Hydroxyl equivalent weight} = \frac{17 \times 100}{\% \text{ OH}}$$

$$\text{Isocyanate equivalent weight} = \frac{42 \times 100}{\% \text{ NCO}}$$

SOLUBILITY

SYNOLAC® 377 BA 70 is well soluble in aromatic hydrocarbons, esters, glycol esters, ketones. It is limited soluble in alcohols and aliphatic hydrocarbon solvents.

COMPATIBILITY

SYNOLAC® 377 BA 70 is well compatible with other modified polyester resins like SYNOLAC® 539 BA 70 and many non drying short oil alkyds.

Notes: (1) Bayer MaterialScience

SYNOLAC®

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOLAC® 377 BA 70 should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature not exceeding 30°C. Exposure to direct sunlight should be avoided.

In the above mentioned storage conditions the shelf life of the resin will be 6 months from the shipping date

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Arkema Coating Resins

420, rue d'Estienne d'Orves

92705 Colombes Cedex - France

arkema.com - arkemacoatingresins.com

