

# 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 Characteristics<sup>1</sup>

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

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

## 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:

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

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

## Formulation Guidelines

### 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

---

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

---

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

See SDS for Health & Safety Considerations.

The products described in the document are not Medical grades designated for Medical Device applications.

Arkema has implemented an internal Medical Policy regarding the use of Arkema products in Medical Devices applications. Arkema has designated Medical grades to be used for Medical Device applications. Products that have not been designated as Medical grades are not authorized by Arkema for use in Medical Device applications. In addition, except for limited cases as determined by the Medical Device Policy, Arkema strictly prohibits the use of any Arkema products in Medical Device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days.

For any use of Arkema's product in Medical Device applications, please contact Arkema's sales network.

**Arkema Coating Resins**

420, rue d'Estienne d'Orves

92705 Colombes Cedex - France

arkema.com - [arkemacoatingresins.com](http://arkemacoatingresins.com)

**ARKEMA**  
INNOVATIVE CHEMISTRY