

## TECHNICAL DATA SHEET

# SYNOLAC® 539 BA 70

*Polyester modified*

### PRODUCT APPLICATION DETAILS

SYNOLAC® 539 BA 70 is a fatty acid modified polyester resin and designed to crosslink with aromatic and/or aliphatic polyisocyanates for two pack-polyurethane coatings with excellent flexibility and adhesion what is especially interesting for industrial wood finishing and metal.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	69 - 72 %	ISO 3251
Viscosity (25°C)	2000 - 3500 mPa.s	ISO 12058-1
Color	5 max Gardner	ISO 4630
Acid value	10 - 15 mg KOH/g	ISO 2114

### OTHER CHARACTERISTICS<sup>1</sup>

	CHARACTERISTICS	METHODS
Solvent	Butyl acetate	-
Flash point	24 °C	ISO 3679
Density	1.05 g/ml	ISO 2811
Fatty acid type	Special fatty acids	-
Fatty acid content	53 %	-
Hydroxyl content	4.2 %	-

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

### MARKETS

#### Coatings & Inks

- Industrial Coating
  - Wood Furniture
  - Industrial Wood Finishes

# SYNOLAC® 539 BA 70

## FORMULATION GUIDELINES

### RECOMMENDATIONS FOR USE

SYNOLAC® 539 BA 70 may also be used as a plastiziser in polyester-two pack-systems without losing the good drying properties or sandability, but can help to improve adhesion and gloss. Moreover SYNOLAC® 539 BA 70 is well suitable for producing very flexible two pack-polyurethane coatings with high hardness and good adhesion on metal, for example in industrial equipment or ship building.

SYNOLAC® 539 BA 70 is preferably cured with aliphatic polyisocyanates like Desmodur® N series <sup>(1)</sup> in stoichiometric ratio for coatings with high durability, but other types can be used as well for appropriate applications.

### SOLUBILITY

SYNOLAC® 539 BA 70 is well soluble in aromatic hydrocarbons, esters, ketones. It is limited thinnable with alcohols and glycolesters.

### COMPATIBILITY

SYNOLAC® 539 BA 70 is compatible with many nondrying short oil alkyds, like SYNOLAC® 435 BA 70, 6046 E 75, 377 BA 70, modified polyester resins, like SYNOLAC® 1529 BA 80, 680 BA 70, many non-plastified urea or melamine resins, nitrocellulose and all commonly used aromatic and aliphatic polyisocyanates or mixtures thereof.

SYNOLAC® 539 BA 70 is compatible with all inert pigments and extenders commonly used in relevant coatings systems.

Notes: <sup>(1)</sup> Covestro

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

SYNOLAC® 539 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 from the shipping date.

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