

SYNOLAC® 539 BA 70

INDUSTRIAL WOOD

ARKEMA COATING RESINS

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.

Polymer Type

- Solventborne Polyester

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	69 - 72
Viscosity at 25°C, mPa.s (ISO 12058-1)	2000 - 3500
Colour, Gardner scale (ISO 4630)	5 max
Acid value, mg KOH/g (ISO 2114)	10 - 15

Other Characteristics¹

Volatile	Butyl acetate
Flash point, °C (ISO 3679)	24
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.05
Type of fatty acid	Special fatty acids
Fatty Acid content, %	53
Hydroxyl Content, %	4.2

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® 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 (1) 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: (1) Covestro

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & 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 6 months from the shipping date

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