

SYNOLAC® 1529 BA 80

GENERAL INDUSTRY

ARKEMA COATING RESINS

Product Application details

SYNOLAC® 1529 BA 80 is a low viscosity, saturated, hydroxy functional polyester resin for high solids polyurethane and stoving systems.

SYNOLAC® 1529 BA 80 is particularly recommended for use in high solids 2K and stoving systems in combination with relevant low viscosity cure agents. End uses for SYNOLAC® 1529 BA 80 include anticorrosive primers for industrial use, finishes for agricultural machinery and household appliances and general metal coatings.

Polyurethane systems based on SYNOLAC® 1529 BA 80 achieve very high gloss levels and provide an excellent colour retention and exterior durability. Relevant coatings show a good balance of hardness, resistance to mechanical stress and flexibility, and an excellent metal adhesion.

In combination with suitable melamine formaldehyde resins stoving systems with similar VOCs may be formulated for temperatures of up to 190°C.

SYNOLAC® 1529 BA 80 provides good flow characteristics even at very high PVCs, making it suitable also for use in pigment pastes in modern tinting systems.

Polymer Type

- Solventborne Polyester

Sales Specifications

Solid Content at 105°C, % (ISO 3251)	79 - 81
Reduced Viscosity at 20°C, s (4mm, 70% in Butyl acetate) (DIN 53 211)	75 - 85
Colour, Gardner scale (ISO 4630)	2 max
Acid value, mg KOH/g (ISO 2114)	14 - 16

Other Characteristics¹

Volatile	Butyl acetate
Flash point, °C (ISO 3679)	33
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.12
Hydroxyl Content, %	5.0

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® 1529 BA 80 is compatible with all commonly used polyisocyanate resins and a wide variety of melamine formaldehyde resins. For high solids coatings the use of low viscosity polyisocyanates, like Tolonate™ HDT-LV (1), or hexamethoxymethyl melamine resins is recommended.

The cure response of SYNOLAC® 1529 BA 80, particularly with low viscosity isocyanurate types of product, may be increased using suitable catalysts, like dibutyl tin dilaurate, zinc octoates or tertiary amines.

To accelerate the cure of SYNOLAC® 1529 BA 80 with HMMM resins the use of strong acid catalysts, like Nacure® 155 (2), is recommended.

SYNOLAC® 1529 BA 80 shows an excellent wetting of most pigments, anticorrosive pigments and extenders.

SOLUBILITY

SYNOLAC® 1529 BA 80 is completely soluble in aromatic hydrocarbons, esters, glycol ether esters, and ketones. It is partially soluble in aliphatic hydrocarbons, alcohols and glycol ethers.

COMPATIBILITY

SYNOLAC®

SYNOLAC® 1529 BA 80 is compatible with many polyester resins, many short to medium oil alkyd resins and most of the acrylic resins of the SYNOCURE® range, like SYNOCURE® 213 BA 50, nitrocellulose, cellulose acetate butyrates, copolymers. It is incompatible with long oil alkyd resins.

Notes: (1) Vencorex Chemicals, (2) King Industries

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOLAC® 1529 BA 80 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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