

## TECHNICAL DATA SHEET

# SYNOLAC® 1529 BA 80

*Polyester polyol*

### 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.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (105°C)	79 - 81 %	ISO 3251
Reduced viscosity (4mm, 70% in Butyl acetate) (20°C)	75 - 85 mPa.s	DIN 53 211
Color	2 max Gardner	ISO 4630
Acid value	14 - 16 mg KOH/g	ISO 2114

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

	CHARACTERISTICS	METHODS
Solvent	Butyl acetate	-
Flash point	33 °C	ISO 3679
Density	1.12 g/ml	ISO 2811
Hydroxyl content	5 %	-

<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
  - Coil
  - General Industry
  - Protective Coating
  - Protective And Marine Coating
  - Industrial Wood Finishes
  - Rigid Packaging Metal (Can & Others)

# SYNOLAC® 1529 BA 80

## 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 <sup>(1)</sup>, 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 <sup>(2)</sup>, 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® 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: <sup>(1)</sup> VENCOR®ex Chemicals, <sup>(2)</sup> King Industries

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND 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 from the shipping date.

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