SYNOLAC®

TECHNICAL DATA SHEET

SYNOLAC® 9770 BA 80

Polyester polyol

PRODUCT APPLICATION DETAILS

SYNOLAC® 9770 BA 80 is a slightly branched saturated polyester resin, containing hydroxyl groups.
SYNOLAC® 9770 BA 80 is recommended for two-component polyurethane varnishes and paints with excellent weather resistance, light and chalking stability, high elasticity paints and varnishes, polyester elastifier and paints for use on plastic materials.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	79 - 81 %	ISO 3251
Viscosity (Brookfield SC4-25/13R, 13.2s-1) (25°C)	1500 - 2500 mPa.s	ISO 3219
Color	2 max Gardner	ISO 4630
Acid value	3 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS[1]

	CHARACTERISTICS	METHODS
Solvent	Butyl acetate	-
Flash point	26 °C	ISO 3679
Density	1.05 g/ml	ISO 2811
Hydroxyl content	4.3 %	-

[1]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
  - Automotive - Refinish
  - General Industry

PERFORMANCE BENEFITS

- recommended for two-component polyurethane varnishes and paints
- with excellent weather resistance, light and chalking stability, high elasticity paints and
- varnishes, polyester elastifier and paints for use on plastic materials

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FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOLAC® 9770 BA 80 used in systems formulated with aliphatic isocyanates as Tolonate™ HDB 75 MX (1), it produces varnishes with good light and weather stability, keeping their gloss and colour extremely well, and with a low chalking level. The varnishes have high flexibility even at low temperatures, being suitable for uses on plastics.
Polyurethane formulations based on SYNOLAC® 9770 BA 80 can be applied to a wide range of substrates: metal, wood, plastics, concrete, etc., after suitable priming. SYNOLAC® 9770 BA 80 is especially suitable for paintings on plastics, such as PUR-RIM, and thermoplastics.
An interesting application is the painting of plastic bodyworks and soft-feel varnishes.
Due to the slow rate of drying in systems based SYNOLAC® 9770 BA 80 with aliphatic polyisocyanates, it is recommended to use forced dryings at 80°C - 100°C.

SOLUBILITY

SYNOLAC® 9770 BA 80 is soluble in esters, ketones and glycol ethers and partially soluble in aromatic hydrocarbons.
It is insoluble in aliphatic solvents.

COMPATIBILITY

SYNOLAC® 9770 BA 80 is compatible with the majority saturated hydroxylated polyesters and polyisocyanates and partially compatible with saturated modified polyesters, nitrocellulose and vinyl resins. Its compatibility is limited with polyvinylbutiral.
It is incompatible with acetobutyrate and the majority hydroxylated acrylic resins.

Notes: (1) VENCOR®ex Chemicals

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 9770 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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