

SYNOLAC® 5514 DBA 80

INDUSTRIAL WOOD

ARKEMA COATING RESINS

Product Application details

SYNOLAC® 5514 DBA 80 is a vegetable fatty acids modified polyester resin. The combination with isocyanates allows the formulation of high quality varnishes for the furniture industry. SYNOLAC® 5514 DBA 80 is recommended for nitrocellulose combination sealers and finishes crosslinked with isocyanate and polyurethane sealers and finishes with a long pot life. SYNOLAC® 5514 DBA 80 contains less than 1% aromatic hydrocarbons.

Polymer Type

- Solventborne Polyester

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	79 - 81
Viscosity at 25°C, mPa.s (Brookfield SC4-25/13R, 13.2s-1) (ISO 3219)	2000 - 3000
Colour, Gardner scale (ISO 4630)	6 max
Acid value, mg KOH/g (ISO 2114)	10 max

Other Characteristics¹

Volatile	Butyl acetate
Flash point, °C (ISO 3679)	25
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	1.01
Type of fatty acid	Vegetable fatty acids
Hydroxyl Content, %	3.7

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® 5514 DBA 80 can be crosslinked with all kind of polyisocyanates and polyisocyanurates. The NCO/OH ratio should not be higher than 0.75:1 when crosslinking with polyisocyanurate.

SYNOLAC® 5514 DBA 80 crosslinked with polyisocyanates, yields polyurethane sealers of long pot life (over 24 h). To obtain fast sanding times it is recommended to use blends of polyisocyanate and polyisocyanurate (2:1 delivery form, for example).

SYNOLAC® 5514 DBA 80 confers to the polyurethane sealers, two important properties:

a) Prevents the formation of pinholes in sealers with high solids content or/and applied by thick coats. Less tendency to pinhole forming at high ambient temperatures than other polyester resins.

b) At one given crosslink ratio, sanding times are shorter than other similar polyester resins. During usual sanding operation, no blunting of sanding paper occurs in spite of the normal heating produced.

In automatic machines do not clog the tapes, and its duration it is longer than normal.

SYNOLAC® 5514 DBA 80 allows the formulation of high solid finishes (50%). In combination with physical drying vehicles (nitrocellulose, vinyl resins), yields finishes with excellent wetting of the pore and excellent superficial hardness.

SOLUBILITY

SYNOLAC® 5514 DBA 80 is soluble in aromatic hydrocarbons, esters, ketones, glycol ethers, diacetone alcohol and trichloroethylene.

COMPATIBILITY

SYNOLAC® 5514 DBA 80 is compatible with nitrocellulose, acetobutyrate, vinyl resins, most short oil alkyds resins and hydroxylated polyesters.

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOLAC® 5514 DBA 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.

Under the above mentioned storage conditions the shelf life of the resin will be 6 months from the shipping date.

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See SDS for Health & Safety Considerations.

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Arkema Coating Resins

420, rue d'Estienne d'Orves

92705 Colombes Cedex - France

arkema.com - arkemacoatingresins.com

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