SYNOLAC®

TECHNICAL DATA SHEET

SYNOLAC® 8049 S 55

Short Oil Alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 8049 S 55 is a fast drying medium oil alkyd resin based on colour retentive fatty acids.
SYNOLAC® 8049 S 55 can be used preferably as air drying single layer and topcoats, e.g., for machinery paints, transport finishes and general industrial paints.The through drying and gloss can be improved by combination with hard resins (e.g. maleic resins).

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	54 -56 %	ISO 3251
Viscosity (25°C)	3500 - 5500 mPa.s	ISO 3219
Color	5 max Gardner	ISO 4630
Acid value	12 - 15 mg KOH/g	ISO 2114

OTHER CHARACTERISTICS[1]

	CHARACTERISTICS	METHODS
Solvent	Low aromatic white spirit / methoxypropanol 85:15	-
Flash point	30 °C	ISO 3679
Density	0.93 g/ml	ISO 2811
Fatty acid type	soya fatty acid	-
Fatty acid content	49 %	-

[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
  - General Industry

PERFORMANCE BENEFITS

- Fast drying
- Very good through drying
- Very high gloss
- Good adhesion
- Good flexibility
- Good exterior gloss retention

SYNOLAC® 8049 S 55

FORMULATION GUIDELINES

DRIERS
As a starting point we recommend the addition of 0.02% - 0.06% cobalt, 0.2% - 0.5% zirconium and 0.1% - 0.3% calcium (metal on solid resin).
Depending on the formulation (clear, pigmented, thixotropic, etc...) and on the application, the loading of each drier may be increased or reduced in order to achieve the appropriate drying/hardness profile.
The use of antiskinning agent is essential to prevent in-can skinning of the finished product.
SOLUBILITY
SYNOLAC® 8049 S 55 is well soluble in aliphatic/aromatic hydrocarbons, esters, glycol ethers and glycol ether esters. It is mostly insoluble in alcohols.
COMPATIBILITY
SYNOLAC® 8049 S 55 is well compatible with long and medium oil alkyds, with rosin esters, maleic and ketone resins and also modified phenolic resins. It is mostly incompatible with non plastified melamin resins, chlorinated rubber, epoxy esters and short oil alkyds. It is not compatible with non plastified urea formaldehyd resins and PVC-copolymers.
SYNOLAC® 8049 S 55 is compatible with all commonly used pigments. For strong basic pigments, however, the storage stability should be checked prior to use.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 8049 S 55 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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