

SYNOLAC® 6883

ARCHITECTURAL COATINGS

ARKEMA COATING RESINS

Product Application details

SYNOLAC® 6883 is a long oil isophthalic acid based alkyd. Its very good pigment wetting properties make it suitable for use as a grinding medium and as an additive to improve the build of alkyd enamels.

It can be used as a co-binder for decorative gloss paints and varnishes to improve build and extend the open time of the coating. The isophthalic backbone gives added water and saponification resistance.

SYNOLAC® 6883 can be used in combination with high solid long oil alkyds in matt and satin-finish paints in order to improve the open time, build and in particular to enhance the flexibility of the film, thus avoiding the problems of cracking and peeling upon ageing.

Performance Benefits

- Resistance to saponification
- Exterior durability
- Excellent wettability of fillers and pigments

Polymer Type

- Solventborne Alkyd

Sales Specifications

| | |
|--------------------------------------|-------------|
| Solid Content at 125°C, % (ISO 3251) | 98 - 100 |
| Viscosity at 20°C, mPa.s (ISO 3219) | 4000 - 5000 |
| Colour, Gardner scale (ISO 4630) | 7 max |
| Acid value, mg KOH/g (ISO 2114) | 10 max |

Other Characteristics¹

| | |
|--|---------------|
| Density / Specific Gravity at 20°C, g/ml | 1.02 |
| Type of fatty acid | Linoleic rich |
| Fatty Acid content, % | 83 |

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

DRIERS

SYNOLAC® 6883 requires metal driers to accelerate the autoxidation process. A suitable combination of driers for use in systems containing SYNOLAC® 6883 is : 0.06 % cobalt, 0.09 % zirconium and 0.1 % calcium calculated as metals on solid resin. Depending on the formulation (clear, pigmented, 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 an anti-skinning agent is essential to prevent in-can skinning of the finished product.

SOLUBILITY

SYNOLAC® 6883 is completely soluble in aliphatic and aromatic hydrocarbons, esters and ketones.

COMPATIBILITY

SYNOLAC® 6883 is compatible with long and medium oil alkyds, drying oils and varnishes, chlorinated rubber and nitrocellulose. It is partially compatible with stand oils and some short oil alkyds.

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOLAC® 6883 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.

The products described in the document are not Medical grades designated for Medical Device applications.

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For any use of Arkema's product in Medical Device applications, please contact Arkema's sales network.

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