

# SYNOLAC® 350 S 65

INDUSTRIAL WOOD

ARKEMA COATING RESINS

## Product Application details

SYNOLAC® 350 S 65 is an alkyd/amino resin precondensate for use in coatings with very low formaldehyde emission. It is especially mild in odour. The particular formulation of the resin allows to keep the content of free formaldehyde below 0.1% and therefore avoids the usually strong odour of emitted formaldehyde from acid curing coatings.

SYNOLAC® 350 S 65 provides a good solvent release, fast curing and quick increase of surface hardness, although the lacquers based on SYNOLAC® 350 S 65 have considerably long pot life.

SYNOLAC® 350 S 65 is particularly recommended for use in industrial furniture coatings, especially kitchen furniture. Moreover SYNOLAC® 350 S 65 is well suitable for fast curing, high quality parquet sealers.

## Performance Benefits

- Good elasticity
- Good abrasion resistance
- Good water resistance
- Good solvent resistance

## Polymer Type

- Solventborne Alkyd

## Sales Specifications

Solid Content at 100°C, % (ISO 3251)	66 -68
Reduced Viscosity at 20°C, s (4mm, 60% in Ethanol:Methoxy propanol 1:1) (DIN 53 211)	130 - 160
Iodine Colour index, (DIN EN 1557)	7 max

## Other Characteristics<sup>1</sup>

Volatile	2:2:1 Methoxy propanol : iso-butanol : ethanol
Flash point, °C (ISO 3679)	27
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.04

<sup>1</sup> 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® 350 S 65 can be cured by addition of 2% - 4% p-toluene sulphonic acid or 1.5% - 3% hydrochloric acid or mixtures of them (quoted relative to solid resin). The formulation on one-component systems can be made with weak acid catalysts like Cycat® XK 391 (1), using about 5% on solid resin.

### SOLUBILITY

SYNOLAC® 350 S 65 is well soluble in alcohols, glycol ethers and -esters, esters and ketones, limited soluble in aliphatic and aromatic hydrocarbons. Especially suitable are mixtures of alcohols and glycol ethers, optionally cutted with special benzines. For application the solid content should be reduced to about 50% using such mixtures.

### COMPATIBILITY

SYNOLAC® 350 S 65 is compatible with a certain range of non-drying short oil alkyds or non-plastified urea- and melamine resins, however it is used mainly as sole binder. SYNOLAC® 350 S 65 can also be combined with nitrocellulose in one-component systems.

Notes: (1) Allnex

SYNOLAC®

---

**Product Safety**

Please refer to the corresponding Safety Data Sheet.

---

**Storage & Handling**

SYNOLAC® 350 S 65 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 6 months from the shipping date

---

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Arkema expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement. See SDS for Health & Safety Considerations.

Arkema has implemented a Medical Policy regarding the use of Arkema products in medical devices applications that are in contact with the body or circulating bodily fluids (<http://www.arkema.com/en/social-responsibility/responsible-product-management/medical-device-policy/index.html>) Arkema has designated medical grades to be used for such medical device applications. Products that have not been designated as medical grades are not authorized by Arkema for use in medical device applications that are in contact with the body or circulating bodily fluids. In addition, Arkema strictly prohibits the use of any Arkema products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Arkema trademarks and the Arkema name shall not be used in conjunction with customers' medical devices, including without limitation, permanent or temporary implantable devices, and customers shall not represent to anyone else, that Arkema allows, endorses or permits the use of Arkema products in such medical devices.

It is the sole responsibility of the manufacturer of the medical device to determine the suitability (including biocompatibility) of all raw materials, products and components, including any medical grade Arkema products, in order to ensure that the final end-use product is safe for its end use; performs or functions as intended; and complies with all applicable legal and regulatory requirements (FDA or other national drug agencies). It is the sole responsibility of the manufacturer of the medical device to conduct all necessary tests and inspections and to evaluate the medical device under actual end-use requirements and to adequately advise and warn purchasers, users, and/or learned intermediaries (such as physicians) of pertinent risks and fulfill any postmarket surveillance obligations. Any decision regarding the appropriateness of a particular Arkema material in a particular medical device should be based on the judgment of the manufacturer, seller, the competent authority, and the treating physician.

**Arkema Coating Resins**

420, rue d'Estienne d'Orves

92705 Colombes Cedex - France

arkema.com - [arkemacoatingresins.com](http://arkemacoatingresins.com)

