

SYNOLAC® 5070S-65

ARKEMA COATING RESINS

Product SYNOLAC® 5070S-65 is a saturated polyester suitable for coil coating top coats. It gives very good adhesion and flexibility. It is designed for applications in Coil coating, sheet fade metal decorating and industrial applications.

Application details

Performance Benefits

- Good flexibility and hardness
- Good gloss and flow
- Capable of curing at high line speeds
- Good exterior durability

Polymer Type

- Solvent borne Polyester

Sales Specifications	Non-volatile content at 150°C, % (ISO 3251)	63 - 67
	Viscosity in Poise at 25°C, Brookefield (ISO 3219)	30 - 40
	Colour, Gardner scale (ISO 4630)	2 Max
	Acid value, mg KOH/g (ISO 2114)	10 Max

Other Characteristics¹	Volatile	Aromatic Solvent 100/ Butyl Glycol
	Density at 25°C, g/cm ³ (ISO 2811)	1.06
	Hydroxyl Value mgKOH/g	50

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

RECOMMENDATIONS FOR USE

Formulation Guidelines

SYNOLAC® 5070S-65 is used in the coil coating industry for cost effective backers and exterior topcoats.

SYNOLAC® 5070S-65 based coatings should be modified with hexa methoxy methyl melamine (HMMM) at a resin solids ratio of between 80:20 and 90:10 polyester:amino resin. A typical curing schedule is 2 minutes at 260°C peak metal temperature. The temperature and times will vary according to the type and gauge of the metal substrate being used. The addition of a catalyst such as Nacure 3525⁽¹⁾ at 0.1 - 0.2% can assist in increasing cure rate. The use of Beetle BE672 at 80:20 polyester:amino resin solids ratio can be used for low temperature curing (e.g. 20 minutes at 120°C metal temperature)

SOLVENTS

Mixtures of high boiling aromatic hydrocarbons and glycol ether esters are appropriate for Coil Coating applications.

Aromatic hydrocarbons for Metal Decorating finishes and aromatic hydrocarbon/alcohol blends for General Industrial enamels

Notes: (1) King Industries

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOLAC[®] 5070S-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.

Under the above mentioned storage conditions the shelf life of the resin will be 12 months from the date of manufacture.

October 2016

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

Arkema has implemented an internal Medical Policy regarding the use of Arkema products in Medical Devices applications. Arkema has designated Medical grades to be used for Medical Device applications. Products that have not been designated as Medical grades are not authorized by Arkema for use in Medical Device applications. In addition, except for limited cases as determined by the Medical Device Policy, 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.

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

Arkema Chemicals India Pvt Ltd
D43 (1), Trans Thane Creek, MIDC Industrial Area,
Shiravane, Nerul, Navi Mumbai 400706, India
Telephone: +91 22 6737 7100
Fax: +91 22 2768 7998

ARKEMA
INNOVATIVE CHEMISTRY