

# SYNOLAC<sup>®</sup> 5670S-55

ARKEMA COATING RESINS

**Product Application details** SYNOLAC<sup>®</sup> 5670S-55 is a saturated, aliphatic-based polyester developed for use in coil coating, sheet fade metal decorating and industrial applications.

**Performance**

- Good gloss and good flow
- Good hardness
- Good flexibility
- Good Stain resistance

**Polymer Type**

- Solvent borne Polyester

<b>Sales Specifications</b>	Solid Content (at 150°C, 1gm, 1hr,) % (ISO 3251)	53 - 57
	Viscosity at 25°C, Brookfield Viscometer in Poise	14 – 20
	Colour, Gardner scale (ISO 4630)	Max 3
	Acid value, mg KOH/g (ISO 2114)	Max 5

<b>Other Characteristics<sup>1</sup></b>	Volatiles	Aromatic Solvent 100/ Butyl Cellosolve
	Hydroxyl Value	25
	Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.06

Note: Acid value and/or Hydroxyl value quoted relative to solid resin

<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 5670S-55 with hexamethoxymethyl melamine resin at ratio of 70:30 to 85:15 on solid resin content is suggested. To promote cure, the use of between 1% and 5% of acid catalyst is recommended, e.g. paratoluene sulphonic acid, calculated on melamine solids.

Variation in the levels of SYNOLAC 5670S-55 and the type of amino resin will modify the overall performance characteristics of the coating. Increasing the level of amino resin (and catalyst) will generally tend to increase the hardness and solvent resistance of the coating but may compromise flexibility.

For Coil Coating applications 85:15 to 80:20 ratio on solids, with hexamethoxymethyl melamine resin is recommended with 2% pTSA catalyst on amino level. For Metal Decorating formulations, a recommended blend on solids, of 72:18:10 OFPE: melamine: epoxy resin (epoxy equ »500) with 2% pTSA on amino solids is suitable. Part methylated amino resin can be used in place of hexamethoxymethyl melamine and will develop very good hardness & solvent resistance but at the expense of flexibility.

---

**Product Safety**

Please refer to the corresponding Safety Data Sheet

---

**Storage & Handling**

SYNOLAC® 5670S-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

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

---

---

**September 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