

## TECHNICAL DATA SHEET

# SYNOLAC® 5070S-65

*Oil free polyester*

### PRODUCT APPLICATION DETAILS

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.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (at 150°C, 1gm, 1hr)	63 - 67 %	ISO 3251
Viscosity (Brookfield) (at 25°C)	30 - 40 P	ISO 3219
Color	2 max Gardner	ISO 4630
Acid value	10 max mg KOH/g	ISO 2114

### OTHER CHARACTERISTICS<sup>1</sup>

	CHARACTERISTICS	METHODS
Volatile	Aromatic Solvent 100/ Butyl Glycol	
Density (at 25°C)	1.06 g/ml	ISO 2811
Hydroxyl content	45 - 55 mg KOH/g	

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

### MARKETS

#### Coatings & Inks

- Industrial Coating
  - Coil

### PERFORMANCE BENEFITS

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

# SYNOLAC® 5070S-65

## FORMULATION GUIDELINES

### RECOMMENDATIONS FOR USE

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 260C 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<sup>(1)</sup> 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: <sup>(1)</sup> King Industries

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND 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. In the above mentioned storage conditions the shelf life of the resin will be from the date of manufacturing.  
Shelf Life (Months): 12

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