

SYNOLAC[®] 154S-60

ARKEMA COATING RESINS

Product SYNOLAC[®] 154S-60 is a good quality, linear oil free polyester resin developed for use in sheet
Application details fed metal decorating and coil coating applications.

- Performance**
- Excellent flexibility
 - Good light fastness
 - Good adhesion
 - Good stain resistance
 - Good exterior durability

Polymer Type

- Solvent borne Polyester

Sales Specifications	% Solid Content at (150°C, 1gm, 1hr), (ISO 3251)	58 - 62
	Viscosity in Poise at 25°C, Brookfield Viscometer (ISO 3219)	18 - 27
	Colour, Gardner scale (ISO 4630)	2 max
	Acid value, mg KOH/g (ISO 2114)	10 max

Other Characteristics¹	Volatile	Aromatic solvent 100/Butyl Glycol (80:20)
	Flash point, °C (ISO 3679)	38
	Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.05
	Hydroxyl Value, mg KOH/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

Formulation Guidelines

RECOMMENDATIONS FOR USE

SYNOLAC[®] 154S-60 is compatible with a wide range of melamine resins and is typically used with hexamethoxymethyl melamine resin and partially methylated melamine. For an optimum performance with respect to level of cure, flexibility, hardness, and impact resistance, a combination of SYNOLAC[®] 154S-60 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 - 5% of acid catalyst is recommended, e.g. paratoluene sulphonic acid calculated on melamine solids.

Variation in the levels of SYNOLAC[®] 154S-60 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 metal decorating formulations, a recommended blend on solids of 72:18:10 i.e. OFPR: MF: EPOXY resin (500eq. wt.) with 2% pTSA solids amino is suitable.

For coil coating applications 85:15 to 80:20 ratio, on solids with hexamethoxymethyl melamine resin is recommended with 2% pTSA catalyst on amino resin level.

Part methylated amino resin can be used in place of hexamethoxymethyl melamine and will develop very good resistance but at the expense of flexibility. Benzoguanamine resin can also be used to increase cure response and retortability.

SYNOLAC[®]
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Product Safety

Refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOLAC® 154S-60 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.

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