SYNOLAC® E20245

ARKEMA COATING RESINS

Product Application details

SYNOLAC® E20245 is a low cost, linear oil free polyester developed for use in Coil Coating, Sheet fed metal decorating and General Industrial applications.

Performance

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

Polymer Type

- Solvent borne Polyester

Sales Specifications

% Solid Content (at 150°C, 1gm, 1hr)(ISO 3251)	53 - 57
Viscosity in Poise at 25°C, Brookfield Viscometer	34 - 40
Colour, Gardner scale (ISO 4630)	4 Max
Acid value, mg KOH/g (ISO 2114)	3 Max

Other Characteristics[1]

Volatile	Aromatic Solvent 150/ Butyl Glycol (75:25)
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

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® E20245 is compatible with a wide range of melamine resins and is typically used with hexamethoxymethyl melamine and partially methylated melamine.

SYNOLAC® E20245 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® E20245 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.

Benzoguanamine resin can also be used to increase cure response and retortability. General industrial enamels can be formulated with 70:30 to 80:20 ratios with hexamethoxymethyl melamine or part methylated melamine, with 2% pTSA catalyst on amino solids. This resin can be used in combination with Isocyanates. Enamels based on SYNOLAC® E20245 exhibit good light fastness results after prolonged UV exposure and finishes are resistant to staining from a variety of household materials.

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Product Safety	Please refer to the corresponding Safety Data Sheet
Storage & Handling	SYNOLAC® E20245 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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