SYNOLAC®

TECHNICAL DATA SHEET

SYNOLAC® 5387 X 60

Modified alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 5387 X 60 is a special epoxy ester, with a quick air drying, hardness development and a fast recoatability.
This resin is essentially designed for the preparation of anticorrosive primers.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content	58.5 - 61.5 %	ISO 3251
Viscosity (Noury) (20°C)	30 - 50 dPa.s	-
Color (50% % in solvent)	8 max Gardner	ISO 4630

OTHER CHARACTERISTICS[1]

	CHARACTERISTICS	METHODS
Acid value	4 max mg KOH/g	ISO 2114
Solvent	Xylene	-
Density	1.07 g/ml	ISO 2811
Fatty acid content	40 %	-
Modification	epoxy ester	-

[1]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
  - General Industry
  - Protective And Marine Coating

PERFORMANCE BENEFITS

- Resistance to abrasion
- Chemical resistance
- Adhesion on difficult substrates (copper, zinc, aluminium...)
- Good mechanical properties

SYNOLAC® 5387 X 60

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOLAC® 5387 X 60 exhibits particular properties in order to formulate:
- primers with high initial hardness and short recoverability (20 minutes to 3 days),
- air drying alkyd resin finishes,
- amino resin or 2 components PU stoving finishes, without surface defects.

P / B = 35.2 / 17.58 = 2 / 1
Films applied by spray (dry thickness 30 to 35 microns) show:
- aspect: matt - satin
- drying: dust free time = 8 - 10 minutes
  handleable = 15 minutes
  paper = 20 minutes
- hardness: 24h = 150 seconds
  48 h = 160 seconds
  5 days = 180 seconds
  15 days = 185 seconds
- reverse impact: 1 kg / 30 cm = OK
- recoatability: between 20 minutes to 3 days after the application, this primer can be recoated at any time with a top coat (diluted in naphtha solvents or a 2 components PU top coat).

Example for primer formulation:

Iron oxide (red)	8.8
Talc 10 microns	8.8
Barium sulfate	17.6
SYNOLAC® 5387 X 60	29.3
drier	1.5
xylene	34.0
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TOTAL	100.0

SOLUBILITY

SYNOLAC® 5387 X 60 is soluble in aromatic hydrocarbons, terpenics and chlorinated solvents, in esters and ketones, in glycol ethers. Aliphatic hydrocarbons and alcohols are not solvent of this resin, but alcohols can be used in small quantities to reduce the viscosity.

COMPATIBILITY

SYNOLAC® 5387 X 60 is compatible with melamine resins for stoving coatings as well as with some ethylcellulose for the air drying or stoving.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 5387 X 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.
In the above mentioned storage conditions the shelf life of the resin will be from the shipping date.

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