SYNOLAC®

TECHNICAL DATA SHEET

SYNOLAC® 350 S 65

Modified alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 350 S 65 is an alkyd/amino resin precondensate for use in coatings with very low formaldehyde emission. It is especially mild in odour. The particular formulation of the resin allows to keep the content of free formaldehyde below 0.1% and therefore avoids the usually strong odour of emitted formaldehyde from acid curing coatings.
SYNOLAC® 350 S 65 provides a good solvent release, fast curing and quick increase of surface hardness, although the lacquers based on SYNOLAC® 350 S 65 have considerably long pot life.
SYNOLAC® 350 S 65 is particularly recommended for use in industrial furniture coatings, especially kitchen furniture. Moreover SYNOLAC® 350 S 65 is well suitable for fast curing, high quality parquet sealers.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (100°C)	66 -68 %	ISO 3251
Reduced viscosity (4mm, 60% in Ethanol:Methoxy propanol 1:1) (20°C)	130 - 160 mPa.s	DIN 53 211
Color (Iodine Colour index)	7 max	DIN EN 1557

OTHER CHARACTERISTICS[1]

	CHARACTERISTICS	METHODS
Solvent	2:2:1 Methoxy propanol : iso-butanol : ethanol	-
Flash point	27 °C	ISO 3679
Density	1.04 g/ml	ISO 2811

[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
  - Wood Furniture

PERFORMANCE BENEFITS

- Good elasticity
- Good abrasion resistance
- Good water resistance
- Good solvent resistance

SYNOLAC® 350 S 65

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE
SYNOLAC® 350 S 65 can be cured by addition of 2% - 4% p-toluene sulphonic acid or 1.5% - 3% hydrochloric acid or mixtures of them (quoted relative to solid resin). The formulation on one-component systems can be made with weak acid catalysts like Cycat® XK 391 [1], using about 5% on solid resin.

SOLUBILITY
SYNOLAC® 350 S 65 is well soluble in alcohols, glycol ethers and -esters, esters and ketones, limited soluble in aliphatic and aromatic hydrocarbons. Especially suitable are mixtures of alcohols and glycol ethers, optionally cutted with special benzines. For application the solid content should be reduced to about 50% using such mixtures.

COMPATIBILITY
SYNOLAC® 350 S 65 is compatible with a certain range of non-drying short oil alkyds or non-plastified urea- and melamine resins, however it is used mainly as sole binder. SYNOLAC® 350 S 65 can also be combined with nitrocellulose in one-component systems.

Notes: [1] Allnex

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 350 S 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 shipping date.

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