

SYNOCURE® 225 BA 50

INDUSTRIAL WOOD / GENERAL INDUSTRY

ARKEMA COATING RESINS

Product Application details

SYNOCURE® 225 BA 50 is a hydroxy functional acrylic resin supplied in butyl acetate that will allow the formulation of aromatic-free systems.

SYNOCURE® 225 BA 50 is particularly recommended for fast drying wood coatings but also suitable for industrial finishes and primers.

SYNOCURE® 225 BA 50 is especially suitable for coatings in the furniture industry exhibiting excellent chemical resistance and mechanical properties.

SYNOCURE® 225 BA 50 exhibits a faster hardening rate than similar resins resulting in early blocking resistance of the applied films under ambient or force dry conditions without compromising the good flexibility.

The long pot life of the prepared mixture offers easy processing on all types of industrial coating equipment.

Polymer Type

- Solventborne Acrylic

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	49 - 51
Viscosity at 25°C, mPa.s (Brookfield SSA 34/13R, 3.36 s-1) (ISO 3219)	2700 - 4000
Colour, Hazen scale (ISO 6271)	50 max
Acid value, mg KOH/g (ISO 2114)	14 - 24

Other Characteristics¹

Volatile	Butyl acetate
Flash point, °C (ISO 3679)	24
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	0.99
Hydroxyl Content, %	2.0

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

SYNOCURE® 225 BA 50 is compatible with most aliphatic or aromatic polyisocyanates.

SYNOCURE® 225 BA 50 may be reacted with most aliphatic and aromatic polyisocyanates, like Desmodur® N 75, N 3390, L, HL, IL (1) or Tolonate™ HDB 75 MX (2).

Due to the quick physical drying of SYNOCURE® 225 BA 50 an addition of catalysts is normally not required.

SYNOCURE® 225 BA 50 may be pigmented with all neutral pigments and extenders. It exhibits very good pigment acceptance which results in very good gloss levels.

The reaction ratio is calculated from the respective equivalent weight or hydroxyl and isocyanate content of the reactants. The relationship is:

$$\text{Hydroxyl equivalent weight} = \frac{17 \times 100}{\% \text{ OH}}$$
$$\text{Isocyanate equivalent weight} = \frac{42 \times 100}{\% \text{ NCO}}$$

SOLUBILITY

SYNOCURE® 225 BA 50 may be thinned in all solvents suitable for 2 K-PU-systems, like xylene, esters, ether esters and ketones. It has a limited solubility in aromatic hydrocarbons.

COMPATIBILITY

SYNOCURE® 225 BA 50 is compatible with cellulose acetate butyrates, nitrocellulose, some PVC-copolymers.

Notes: (1) Bayer MaterialScience, (2) Vencorex Chemicals

SYNOCURE®

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOCURE® 225 BA 50 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 12 months from the shipping date

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