

SYNOCURE® 213 BA 50

INDUSTRIAL WOOD

ARKEMA COATING RESINS

Product Application details

SYNOCURE® 213 BA 50 is a fast drying, hydroxy functional acrylic resin designed to crosslink with polyisocyanates under ambient or force dry conditions. SYNOCURE® 213 BA 50 is specifically adapted to use in varnishes for industrial furniture finishing. SYNOCURE® 213 BA 50 quickly achieves a good blocking resistance and in spite of its relatively low hydroxyl value provides a good resistance to household chemicals.

Performance Benefits

- Good blocking resistance
- Good resistance to household chemicals

Polymer Type

- Solventborne Acrylic

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	49 - 51
Viscosity at 23°C, mPa.s (Brookfield RVT, 20rpm, sp4) (ISO 2555)	2500 - 4000
Iodine Colour index, (DIN EN 1557)	1 max
Acid value, mg KOH/g (ISO 2114)	12 max

Other Characteristics¹

Volatile	Butyl acetate
Flash point, °C (ISO 3679)	25
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.02
Hydroxyl Content, %	1.3

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® 213 BA 50 may be reacted with most aliphatic and aromatic types of polyisocyanates, like Desmodur® N 75, N 3390, L, HL, IL (1) or Tolonate™ HDB 75 MX (2). The compatibility with Desmodur® HL series (1) however may be affected after prolonged storage of the polyisocyanate.

Due to the quick physical drying of SYNOCURE® 213 BA 50 an addition of catalysts is normally not required.

SYNOCURE® 213 BA 50 may be pigmented with all neutral pigments and extenders.

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® 213 BA 50 may be thinned in all solvents suitable for 2 K-PU-systems, like esters, aromatic hydrocarbons and ketones.

COMPATIBILITY

SYNOCURE® 213 BA 50 is compatible with cellulose acetate butyrates, nitrocellulose, some PVC-copolymers and SYNOLAC® 1529 BA 80.

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

SYNOCURE®

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOCURE® 213 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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