

SYNOCURE® 210 BA 40

INDUSTRIAL WOOD

ARKEMA COATING RESINS

Product Application details

SYNOCURE® 210 BA 40 is designed for use in extremely fast drying coatings for industrial wood finishing.

SYNOCURE® 210 BA 40 is specifically adapted to use in varnishes for industrial furniture finishing. SYNOCURE® 210 BA 40 quickly achieves a good blocking resistance and in spite of its relatively low hydroxyl value provides a good resistance to household chemicals.

In combination with aliphatic polyisocyanates like Desmodur® N series (1) the coating film shows excellent drying and hardness without using CAB in the formulation.

Performance Benefits

- Good blocking resistance
- Good resistance to household chemicals

Polymer Type

- Solventborne Acrylic

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	39 - 41
Viscosity at 23°C, mPa.s (Brookfield RVT, 20rpm, sp4) (ISO 2555)	3000 - 5000
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)	24
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	0.98
Hydroxyl Content, %	1.0

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® 210 BA 40 is compatible with aromatic and aliphatic polyisocyanates like Desmodur® HL, L, N 75, N 3390 (1) or Tolonate™ HDB 75 MX (2).

SYNOCURE® 210 BA 40 may be reacted with most aliphatic and aromatic types of polyisocyanates, like Desmodur® N 75, N 3390, L, HL, IL (1) etc. The compatibility with Desmodur® HL (1) however may be affected after prolonged storage of the polyisocyanate. Due to the quick physical drying of SYNOCURE® 210 BA 40 an addition of catalysts is normally not required.

SYNOCURE® 210 BA 40 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® 210 BA 40 may be thinned in all solvents suitable for 2 K-PU-systems, like esters, aromatic hydrocarbons and ketones.

COMPATIBILITY

SYNOCURE® 210 BA 40 is partly compatible with cellulose acetate butyrates and nitrocellulose (sometimes reaction resulting in viscosity increase).

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

SYNOCURE®

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOCURE® 210 BA 40 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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The logo for ARKEMA, with the word in a bold, sans-serif font. The 'A' and 'R' are dark blue, and the 'KEMA' part is green.