

SYNOCURE® 7120 S 50

INDUSTRIAL WOOD

ARKEMA COATING RESINS

Product Application details

SYNOCURE® 7120 S 50 is a hydroxy acrylic resin crosslinkable with polyisocyanates. SYNOCURE® 7120 S 50 has been developed to be used in varnishes and lacquers for furniture performing fast drying and hardening even with aliphatic polyisocyanates. SYNOCURE® 7120 S 50 provides in blend with aliphatic polyisocyanates yellowing resistance films and therefore is suitable to be used in white lacquers for kitchen cabinet. SYNOCURE® 7120 S 50 permits the formulation of clear glossy finishes with excellent polishing.

Polymer Type

- Solventborne Acrylic

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	49 - 51
Viscosity at 25°C, mPa.s (ISO 3219)	3600 - 6300
Colour, Hazen scale (ISO 6271)	100 max
Acid value, mg KOH/g (ISO 2114)	5 - 10

Other Characteristics¹

Volatile	1:1 xylene : butyl acetate
Flash point, °C (ISO 3679)	8
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	1.00
Hydroxyl Content, %	1.6

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® 7120 S 50 is compatible with most of polyisocyanates. 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® 7120 S 50 is completely soluble in aromatic hydrocarbons, esters, ketones and glycol ethers. Limited in aliphatic hydrocarbons and alcohols.

COMPATIBILITY

SYNOCURE® 7120 S 50 is compatible with most amino resins, nitrocellulose and cellulose acetate butyrate.

OTHERS ADDITIVES

By adding UV-absorbers it is suitable for sealers and finishes for light veneers.

SYNOCURE®

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOCURE® 7120 S 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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