

SYNOCRYL® 9122X-40 IN

ARKEMA COATING RESINS

Product Application details SYNOCRYL® 9122X-40 IN is a solution of a thermoplastic acrylic polymer used in a variety of specialized air drying and force drying finishes.

- Performance Benefits**
- Combine elasticity and toughness
 - Excellent color retention
 - Very fast drying
 - Good compatibility with broad range of resin and plasticizers

Polymer Type

- Solvent borne Acrylic

Sales Specifications	% Solid content, (ISO 3251, 1gm, 1h, 125°C)	38 - 42
	Viscosity in Poise at 25°C, Brookfield Viscometer (ISO 3219)	10 - 15
	Colour, Gardner scale (ISO 4630)	1 Max
	Acid value, mg KOH/g (ISO 2114)	10 Max

Volatile Aromatic solvent	Xylene
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Other Characteristics¹	Density at 25°C, g/cm ³ (ISO 2811)	0.94
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RECOMMENDATIONS FOR USE

Air drying and stoving finishes may be formulated from SYNOCRYL® 9122X-40 IN. There is however, a slight tendency for solvent entrapment to occur during drying at ambient temperature and a forced drying process is therefore recommended. An alternative method of improving solvent release and increasing film hardness of air drying system is to incorporate 5 - 7% nitrocellulose into the formulation, although care should be taken in the choice of solvent in order to ensure complete compatibility of the components.

Formulating Guidelines

When used as the vehicle for stoving finishes SYNOCRYL® 9122X-40 IN produces high gloss coatings that exhibit outstanding resistance to yellowing even after prolonged exposure to temperatures as high as 180°C.

Above 200°C the resin gradually depolymerizes and evaporates without charring. To obtain coating of the highest gloss, high levels of pigmentation must be avoided. A typical pigment: binder ratio for gloss finish incorporating titanium dioxide is 0.25-0.3:1.0.

SYNOCRYL® 9122X-40 IN is soluble in a range of aromatic hydrocarbons, esters and ketones. The resin has limited solubility in aliphatic hydrocarbons and alcohols.

SYNOCRYL® 9122X-40 IN is compatible with a range of cellulose esters, vinyl resins and chlorinated rubber.

SYNOCRYL® 9122X-40 IN should only be used in applications consistent with the above recommendations.

Proposals to use the resin in other ways should be discussed with Arkema before any action is taken.

Product Safety

Please refer to the corresponding Safety Data Sheet

Storage & Handling

SYNOCRYL® 9122X-40 IN 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.

Under the above mentioned storage conditions the shelf life of the resin will be 12 months from the date of manufacturing.

August 2016

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