

TECHNICAL DATA SHEET

SYNOCRYL® 9122X-40

Thermoplastic acrylic

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.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (at 125°C, 1gm, 1hr)	38 - 42 %	ISO 3251
Viscosity (at 25°C)	10 - 15. P	ISO 3219
Color	1 max Gardner	ISO 4630
Acid value	10 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Volatile	Xylene	
Flash point	24 °C	ISO 3679
Density (at 20°C)	0.94 g/ml	ISO 2811

Acid value and/or Hydroxyl value quoted relative to solid resin

¹The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

MARKETS

Coatings & Inks

- Industrial Coating
- General Industry

PERFORMANCE BENEFITS

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

SYNOCRYL® 9122X-40

FORMULATION GUIDELINES

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.

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 AND HANDLING

SYNOCRYL® 9122X-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 from the date of manufacturing.

Shelf Life (Months): 12

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