

# SYNOCRYL® 9122 X 40

GENERAL INDUSTRY

ARKEMA COATING RESINS

**Product Application details** SYNOCRYL® 9122 X 40 is a thermoplastic acrylic polymer used in a variety of specialised air drying and force drying finishes.

**Performance Benefits**

- Combine elasticity with toughness
- Exhibit outstanding colour retention to light and elevated temperatures
- Show a very fast drying

**Polymer Type**

- Solventborne Acrylic

<b>Sales Specifications</b>	Solid Content at 125°C, % (ISO 3251)	38 - 42
	Viscosity at 25°C, mPa.s (Brookfield SC4-34/13R, 16.8 s-1) (ISO 3219)	800 - 1500
	Colour, Gardner scale (ISO 4630)	1 max
	Acid value, mg KOH/g (ISO 2114)	9 max

<b>Other Characteristics<sup>1</sup></b>	Volatile	Xylene
	Flash point, °C (ISO 3679)	24
	Density / Specific Gravity at 25°C, g/ml (ISO 2811)	0.93

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

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

## RECOMMENDATIONS FOR USE

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 systems is to incorporate 5-7% nitrocellulose into the formulation, although care should be taken in the choice of solvents in order to ensure complete compatibility of the components.

When used as the vehicle for stoving finishes SYNOCRYL® 9122 X 40 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 depolymerises and evaporates without charring.

To obtain coatings of the highest gloss, high levels of pigmentation must be avoided. A typical pigment : binder ratio for a gloss finish incorporating titanium dioxide is 0.25-0.3 : 1.0.

## SOLUBILITY

SYNOCRYL® 9122 X 40 tolerates dilution with aromatic hydrocarbons, aliphatic esters, ketones, n-butanol, dipentene and pine oil. Limited reducibility is possible with aliphatic hydrocarbons.

## COMPATIBILITY

SYNOCRYL® 9122 X 40 is compatible with rosin, ester gum, nitrocellulose and linseed oil varnish.

**Product Safety** Please refer to the corresponding Safety Data Sheet.

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## Storage & Handling

SYNOCRYL® 9122 X 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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