

SYNOCRYL® 9122X-40 IN

ARKEMA COATING RESINS

Product SYNOCRYL® 9122X-40 IN is a solution of a thermoplastic acrylic polymer used in a variety of
Application details 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

Other Characteristics

Volatile Aromatic solvent	Xylene
Density at 25°C, g/cm ³ (ISO 2811)	0.94

Formulating 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®

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.

January 2023

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement. See SDS for Health & Safety Considerations.

The products described in the document are not Medical grades designated for Medical Device applications. Arkema has implemented an internal Medical Policy regarding the use of Arkema products in Medical Devices applications. Arkema has designated Medical grades to be used for Medical Device applications. Products that have not been designated as Medical grades are not authorized by Arkema for use in Medical Device applications. In addition, except for limited cases as determined by the Medical Device Policy, Arkema strictly prohibits the use of any Arkema products in Medical Device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. For any use of Arkema's product in Medical Device applications, please contact Arkema's sales network.

Arkema Chemicals India Pvt Ltd
D43 (1), Trans Thane Creek, MIDC Industrial Area,
Shiravane, Nerul, Navi Mumbai 400706, India
Telephone: +91 22 6737 7100
Fax: +91 22 2768 7998

ARKEMA