

# SYNOCRYL® 874 N 40

PROTECTIVE & MARINE COATINGS

ARKEMA COATING RESINS

## Product Application details

SYNOCRYL® 874 N 40 is a thermoplastic acrylic copolymer possessing the excellent colour, gloss retention and exterior durability properties typical of this class of resin.

The acrylic monomers used in the manufacture of SYNOCRYL® 874 N 40 were selected to provide hard and tough films, yet with sufficient plasticising character to maintain flexibility.

The versatility of SYNOCRYL® 874 N 40 enables it to be used in a variety of finishes, either as the sole vehicle in clear or pigmented coatings for metal, wood, plastic and fabrics.

Water white films can be cast from SYNOCRYL® 874 N 40, and clear or pigmented films possess fast air dry times and are resistant to soaps and detergents. The films are also resistant to degradation when exposed to heat or ageing. They are far superior to chlorinated rubber based systems in terms of colour retention.

SYNOCRYL® 874 N 40 can also be used as a modifying resin to improve the drying time, durability and resistance properties of other coating systems.

## Performance Benefits

- Excellent colour retention at elevated temperatures
- Excellent soap and detergent resistance
- Good compatibility with a broad range of resins and plasticizers

## Polymer Type

- Solventborne Acrylic

## Sales Specifications

Solid Content at 125°C, % (ISO 3251)	39 - 41
Viscosity at 25°C, mPa.s (Brookfield RVT , 20rpm, sp3) (ISO 3219)	1000 - 1800
Colour, Hazen scale (ISO 6271)	100 max
Acid value, mg KOH/g (ISO 2114)	10 max

## Other Characteristics<sup>1</sup>

Volatile	Aromatic hydrocarbon, boiling range 160°C - 180°C
Flash point, °C (ISO 3679)	43
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	0.96

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

## Formulation Guidelines

### SOLUBILITY

SYNOCRYL® 874 N 40 is supplied in a high boiling aromatic solvent and is soluble in a range of aromatic hydrocarbons, esters and ketones. The resin has a limited solubility in aliphatic hydrocarbons and alcohols.

### COMPATIBILITY

SYNOCRYL® 874 N 40 is compatible with a range of cellulose esters, vinyl resins, chlorinated rubber and acrylated alkyds.

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**Product Safety**

Please refer to the corresponding Safety Data Sheet.

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**Storage & Handling**

SYNOCRYL® 874 N 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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