

SYNOLAC[®] 680X60

Hydroxyl Functional Polyester

ARKEMA COATING RESINS

Product Application details

SYNOLAC[®] 680X60 is a branched, hydroxy functional polyester resin designed to crosslink with polyisocyanates under ambient or force dry conditions. SYNOLAC[®] 680X60 exhibits a very fast drying and high level of hardness of the cured films. The resulting surfaces are highly abrasion resistant and non-thermoplastic.

Finishes based on SYNOLAC[®] 680X60 show an excellent light and weather resistance, making it suitable for high quality coatings for objects with long life cycles.

Performance Benefits

- Fast drying
- Good hardness
- Good abrasion resistant
- Excellent weather resistant

Polymer Type

- Solventborne Polyester

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	59 - 61
Viscosity at 25°C, Gardner Holdt	Y - Z2
Colour, Gardner scale (ASTM D1544)	5 max
Acid value, mg KOH/g (ISO 2114)	15 max

Other Characteristics¹

Volatile	Xylene
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	1.03
Hydroxyl Context, %	3.3
Hydroxyl Value, mg KOH/g	110

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

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

RECOMMENDATIONS FOR USE

SYNOLAC[®] 680X60 in combination with aliphatic polyisocyanates is particular recommended for air and warm air drying transport finishing systems. In combination with aromatic/aliphatic polyisocyanates SYNOLAC[®] 680X60 also find application in fast drying coatings for wood, plastic substrates and paper.

SOLUBILITY

SYNOLAC[®] 680X60 may be thinned in all commonly used solvent for polyurethane systems, like ethyl acetate, butyl acetate, methoxypropyl acetate, Xylene, MEK, MIBK etc.

COMPATIBILITY

SYNOLAC[®] 680X60 is compatible with nitrocellulose, some polyvinylchloride copolymers, like Ucar Solution Vinyl VAGH (Union Carbide), ketone and aldehyde resins and many acrylic resins from the SYNOCURE[®] range. SYNOLAC[®] 680X60 is incompatible with cellulose acetate butyrate.

Formulation Guidelines

SYNOLAC[®]

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOLAC® 680X60 should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature not exceeding 35°C. Exposure to direct sunlight should be avoided.

In the above mentioned storage conditions the shelf life of the resin will be 12 months.

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The logo for ARKEMA, featuring the word "ARKEMA" in a bold, sans-serif font. The letters "A", "R", "K", "E", and "M" are in a dark blue color, while the letter "A" at the end is in a light green color.