

# SYNAQUA® 2350 EP 60

GENERAL INDUSTRY

ARKEMA COATING RESINS

## Product Application details

SYNAQUA® 2350 EP 60 is a highly flexible acrylated epoxy ester. It can be used in both water-dilutable or solvent-based 1K systems (curing at room temperature or stoving, with or without the presence of amino resins).

SYNAQUA® 2350 EP 60 is recommended for use in both industrial primers and topcoats.

## Performance Benefits

- Rapidly becomes water insoluble, even when dried at room temperature
- Fast drying even at lower stoving temperatures
- Excellent pigment wetting giving good gloss even at high addition levels
- High build, maximising edge cover when applied by dip coating
- Good chemical and water resistance
- In waterbased applications, compatibility with butoxylated melamine and benzoguanamine resins giving improved corrosion resistance
- Minimal foaming in waterbased systems, particularly recommended for dip and curtain coating
- Fast drying and good adherence direct to metal when used in solvent-based applications

## Polymer Type

- Waterdilutable Resin

## Sales Specifications

Solid Content at 125°C, % (ISO 3251)	56 - 60
Viscosity at 20°C, mPa.s (ISO 3219)	6000 - 10000
Colour, Gardner scale (50% solids) (ISO 4630)	6 max
Acid value, mg KOH/g (ISO 2114)	65 - 75

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

Volatile	Ethoxy propanol
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.06

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

## Formulation Guidelines

### DRIERS

The following drier combination is recommended for use with SYNAQUA® 2350 EP 60 in air drying applications: 0.03 - 0.05% cobalt and 0.1 - 0.2% zirconium, both as % metal on solid resin.

Triethylamine is recommended for use in air dry systems, dimethylamine for stoving applications.

It is preferable to disperse any pigments and fillers in the resin before neutralisation, where necessary with the addition of an ether glycol or amino resin.

### COMPATIBILITY

It is recommended to use driers that have been especially developed for water based coatings. A suitable drier for SYNAQUA® 2350 EP 60 can be the use of a plurimetalllic drier, for exp. Additol® VXW 6206 (1) at 1.5% on resin solids or the use of 0.1-0.15% of cobalt alone on resin solids.

Unlike solvent-based alkyds no antiskinning agent is required when formulating with SYNAQUA® 2350 EP 60.

Notes: (1) Allnex

SYNAQUA®

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## Product Safety

Please refer to the corresponding Safety Data Sheet.

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## Storage & Handling

SYNAQUA® 2350 EP 60 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 6 months from the shipping date

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### Arkema Coating Resins

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The logo for ARKEMA, with the word in a bold, sans-serif font. The 'A', 'R', 'K', 'E', and 'M' are in dark blue, while the 'A' at the end is in green.