

TECHNICAL DATA SHEET

SYNAQUA® 2350 EP 60

Waterdilutable alkyd

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.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	56 - 60 %	ISO 3251
Viscosity (20°C)	6000 - 10000 mPa.s	ISO 3219
Color (50% solids)	6 max Gardner	ISO 4630
Acid value	65 - 75 mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	Ethoxy propanol	-
Density	1.06 g/ml	ISO 2811

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

MARKETS

Packaging

- Consumer Goods & Paper
 - Rigid Packaging

Coatings & Inks

- Industrial Coating
 - General Industry
 - Rigid Packaging Metal (Can & Others)

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
- Good adhesion on glass substrate combined with a good chemical resistance

SYNAQUA® 2350 EP 60

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

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNAQUA® 2350 EP 60 should be stored indoors in the original, unopened and undamaged container, in a dry place at storage temperatures between 5°C and 30°C. Exposure to direct sunlight should be avoided. The product is protected to prevent any microbial deterioration during normal conditions of storage but care should be taken to avoid accidental contamination during subsequent handling and processing. In the above mentioned storage conditions the shelf life of the resin will be from the shipping date.

Shelf Life (Months): 6

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