

SYNAQUA® 6812

ARCHITECTURAL COATINGS

ARKEMA COATING RESINS

Product Application details

SYNAQUA® 6812 is a self emulsifying long oil alkyd resin designed for use in water based decorative coatings, in combination with (styrene-)acrylic or vinylic emulsions.

SYNAQUA® 6812 is to be used as co-binder in the formulation of 2010 VOC compliant paints and primers (according to the European Directive 2004/42/CE) in combination with (styrene-) acrylic or vinylic emulsions.

In matt paints and primers, it can substitute up to 30% of the (styrene-) acrylic or vinylic binder. In lower PVC paints, the level should not exceed 10% to 20%.

SYNAQUA® 6812 does not contain any solvent, amines nor alkylphenolethoxylates.

Performance Benefits

- Penetration into porous substrates
- Adhesion
- Easiness of application

Polymer Type

- Alkyd Emulsion

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	99 - 100
Viscosity at 20°C, mPa.s (ISO 3219)	2000 - 3000
Colour, Gardner scale (ISO 4630)	6 max
Acid value, mg KOH/g (ISO 2114)	10 max

Other Characteristics¹

Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.02
Type of fatty acid	Linoleic rich
Fatty Acid content, %	80

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

It is recommended to use driers to obtain the optimum properties of the SYNAQUA® 6812. Due to its specific nature (solvent free), it is recommended to use solventborne driers which have proved to be more efficient than waterborne driers. The use of cobalt alone is sufficient, a level of 0.06 % on solid binder is convenient.

Nevertheless, the use of secondary driers such as Zirconium, or Calcium (for solventborne systems) is possible.

The use of antiskinning agent is not necessary.

SYNAQUA®

**Product
Safety**

Please refer to the corresponding Safety Data Sheet.

**Storage &
Handling**

SYNAQUA® 6812 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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The logo for ARKEMA, with the word in a bold, sans-serif font. The 'A' and 'R' are dark blue, and the 'KEMA' part is green.