

## TECHNICAL DATA SHEET

# SYNAQUA® 6812

*Alkyd Emulsion*

### 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.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	99 - 100 %	ISO 3251
Viscosity (20°C)	2000 - 3000 mPa.s	ISO 3219
Color	6 max Gardner	ISO 4630
Acid value	10 max mg KOH/g	ISO 2114

### OTHER CHARACTERISTICS<sup>1</sup>

	CHARACTERISTICS	METHODS
Density (20°C)	1.02 g/ml	ISO 2811
Fatty acid type	Linoleic rich	
Fatty acid content	80 %	

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

### MARKETS & APPLICATIONS

#### Coatings & Inks

- Architectural Coating
  - Interior Wall
  - Primers
  - Specialty Coatings
- Flooring
  - Floor Polish & Floor Coatings

### PERFORMANCE BENEFITS

- Penetration into porous substrates
- Adhesion
- Easiness of application

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## 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.

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

SYNAQUA® 6812 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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