

TECHNICAL DATA SHEET

ENCOR[®] 2423

Styrene acrylic Emulsion

PRODUCT APPLICATION DETAILS

ENCOR[®] 2423 is a high viscous versatile binder formulated without alkylphenolethoxylates. ENCOR[®] 2423 is a universal binder that is used in the formulation of indoor highly filled matt paints with excellent scrub resistance, as well as glossy wall paints, outdoor paints, thick textured coatings and silicate based coatings.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (105°C)	49 - 51 %	ISO 3251
pH	7.5 - 8.5	ISO 976
Viscosity (Brookfield RVT , 20rpm) (23°C)	7000 - 14000 mPa.s	ISO 2555

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Stabilizing system	A / NI	
Minimum film formation temperature	20 °C	ISO 2115
Density	1.04 g/ml	ISO 2811
Average particle size	150 nm	ISO 13321
Freeze thaw stability	- 5 °C	ISO 1147

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

MARKETS

Coatings & Inks

- Architectural Coating
 - Exterior Wall
 - Interior Wall
 - Primers
 - Specialty Coatings

PERFORMANCE BENEFITS

- Very high binding power
- Good resistance to water and alkali
- Good compatibility with silicates, silicones and cement

ENCOR[®] 2423

FORMULATION GUIDELINES

RHEOLOGY

Rheology and viscosity can be adjusted using associative thickeners, such as Coapur[™] XS 22 ⁽¹⁾, Coapur[™] 3025 ⁽¹⁾, Rheotech[™] 2100 ⁽¹⁾ or Rheolate[®] 278 ⁽²⁾. Cellulosic thickeners are also convenient such as Natrosol[®] 250 HR ⁽³⁾ or Walocel[™] CRT 1000 PV ⁽⁴⁾.

OTHER ADDITIVES

A coalescing agent is necessary to ensure a good film formation at low temperature, Texanol[™] ⁽⁵⁾ or butyldiglycol acetate are suitable.

The use of defoamers is recommended, Tego Foamex[®] ⁽⁶⁾ 7447, Foamaster[®] MO 2134 ⁽⁷⁾, Agitan[®] 281⁽⁸⁾ and Bevaloid[®] 2514 ⁽⁹⁾ have proved to be efficient.

Notes : ⁽¹⁾ Coatex ⁽²⁾ Elementis Specialties, ⁽³⁾ Ashland Specialty Ingredients, ⁽⁴⁾ Dow Corning Materials, ⁽⁵⁾ Eastman Chemical Company, ⁽⁶⁾ Evonik Tego Chemie, ⁽⁷⁾ BASF, ⁽⁸⁾ Münzing Chemie GmbH, ⁽⁹⁾ Kemira

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

ENCOR[®] 2423 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 Durability (Months): 6

Headquarter: Arkema France
420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
T +33 (0)1 49 00 80 80

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