

## TECHNICAL DATA SHEET

# ENCOR<sup>®</sup> 2105

*Styrene acrylic Emulsion*

### PRODUCT APPLICATION DETAILS

ENCOR<sup>®</sup> 2105 is a styrene acrylic emulsion formulated without alkylphenolethoxylates, solvent nor plasticizer. ENCOR<sup>®</sup> 2105 is a binder adapted to the formulation of low VOC roof and flexible exterior coatings. It exhibits a good durability thanks to its good and stable mechanical properties.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (105°C)	59 - 61 %	ISO 3251
pH	6.5 - 8.5	ISO 976
Viscosity (Brookfield RVT , 20rpm) (23°C)	500 - 1500 mPa.s	ISO 2555

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

	CHARACTERISTICS	METHODS
Stabilizing system	A / NI	
Minimum film formation temperature	0 °C	ISO 2115
Glass transition temperature (DSC)	- 8 °C	
Density	1.03 g/ml	ISO 2811
Average particle size	300 nm	ISO 13321
Freeze thaw stability	- 6 °C	ISO 1147

<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
  - Elastomeric Wall
  - Exterior Wall
  - Primers
  - Specialty Coatings
- Textile & Leather Coating
  - Textile

#### Building & Construction

- Construction Materials
  - Waterproofing Membrane

### PERFORMANCE BENEFITS

- Low MFFT
- Low tackiness
- Good balance of cohesion & flexibility
- Stable mechanical properties
- Excellent elastic recovery

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## FORMULATION GUIDELINES

### **RHEOLOGY**

Rheology and viscosity can be adjusted using associative thickeners, such as Coatex<sup>®</sup> BR 100 <sup>(1)</sup> or Coapur<sup>™</sup> XS 22 <sup>(1)</sup>. Cellulosic or acrylic (ASE) thickeners, such as HYCRYL<sup>®</sup> 0262 are also convenient.

### **OTHER ADDITIVES**

The use of defoamers is recommended, FoamStar<sup>®</sup> SI 2210 <sup>(2)</sup> or Foamaster<sup>®</sup> MO 2134 <sup>(2)</sup> have proved to be efficient.

Notes: <sup>(1)</sup> Coatex, <sup>(2)</sup> BASF

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

ENCOR<sup>®</sup> 2105 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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