

## TECHNICAL DATA SHEET

# ENCOR® 2505

*Acrylic Emulsion*

### PRODUCT APPLICATION DETAILS

ENCOR® 2505 is a pure acrylic emulsion formulated without alkylphenoethoxylates. ENCOR® 2505 is particularly adapted to the formulation of paints and primers for mineral substrates. Its specific design ensures a very good resistance to alkaline media: its mechanical properties are stable and no embrittlement of the coating is observed upon ageing.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (105°C)	46 - 48 %	ISO 3251
pH	7.5 - 9.0	ISO 976
Viscosity (Brookfield RVT , 20rpm) (23°C)	100 - 500 mPa.s	ISO 2555

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

	CHARACTERISTICS	METHODS
Stabilizing system	A / NI	
Minimum film formation temperature	6 °C	ISO 2115
Density	1.06 g/ml	ISO 2811
Average particle size	150 nm	ISO 13321

<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

#### Coatings & Inks

- Architectural Coating
  - Exterior Wall
  - Primers
  - Specialty Coatings

### PERFORMANCE BENEFITS

- Good adhesion to mineral substrates
- Early water and alkali resistance
- Low MFFT with a good blocking resistance

# ENCOR<sup>®</sup> 2505

## FORMULATION GUIDELINES

### RHEOLOGY

Rheology and viscosity can be controlled using associative thickeners, such as Coapur<sup>™</sup> 3025 <sup>(1)</sup>, Coapur<sup>™</sup> 830 W <sup>(1)</sup> or Aquaflo<sup>®</sup> NHS 30 <sup>(2)</sup>. Cellulosic thickeners, namely Natrosol<sup>®</sup> 250 HHR <sup>(2)</sup> are also convenient.

### OTHER ADDITIVES

ENCOR<sup>®</sup> 2505 low MFFT offers the possibility to formulate low VOC paints and primers. Nevertheless, the use of a low amount of film forming aid, such as Texanol<sup>®</sup> <sup>(3)</sup> is advised for optimal coating properties when applied in severe conditions (low temperature and / or low relative humidity).

The use of defoamers is recommended, Foamaster<sup>®</sup> MO 2134 <sup>(4)</sup> has proved to be efficient.

Notes: <sup>(1)</sup> Coatex, <sup>(2)</sup> Ashland Specialty Ingredients, <sup>(3)</sup> Eastman Chemical Company, <sup>(4)</sup> BASF

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

ENCOR<sup>®</sup> 2505 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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