

## TECHNICAL DATA SHEET

# ENCOR<sup>®</sup> 5425

*Styrene acrylic Emulsion*

### PRODUCT APPLICATION DETAILS

ENCOR<sup>®</sup> 5425 is a low VOC, styrene-acrylic copolymer latex. This product is free from coalescing agents and APE surfactants.

ENCOR<sup>®</sup> 5425 is recommended for the formulation of liquid roofing membranes and ceramic tile paste adhesives.

ENCOR<sup>®</sup> 5425 finds also application in the formulation of cost effective pigmented sealants.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (105°C)	49 - 51 %	ISO 3251
pH	7.5 - 8.5	ISO 976
Viscosity (Brookfield RVT, 20rpm, sp5) (23°C)	5000 - 9000 mPa.s	ISO 2555

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

	CHARACTERISTICS	METHODS
Stabilizing system	A / NI	-
Minimum film formation temperature	21 °C	ISO 2115
Glass transition temperature	23 °C	DSC
Density (23°C)	1.02 g/ml	ISO 2811
Average particle size	130 nm	ISO 13321

<sup>\*</sup>Product formulated without formaldehyde or formaldehyde releasers. During normal conditions of use, this binder does not generate formaldehyde.  
<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
- Textile & Leather Coating
  - Textile

#### Building & Construction

- Construction Materials
  - Bui Composite Fibers

#### Adhesives & Sealants

- Sealants
  - Sealants - Construction
  - Construction Adhesives & Sealants

### PERFORMANCE BENEFITS

- Cost effective
- Low VOC content
- Formaldehyde free\*

# ENCOR<sup>®</sup> 5425

## FORMULATION GUIDELINES

The MFFT of ENCOR<sup>®</sup> 5425 can be lowered by the addition of suitable coalescing solvents as butyl diglycol acetate, Texanol<sup>™</sup>(<sup>1</sup>) or Dowanol<sup>®</sup> TPnB (<sup>2</sup>).

Rheology and viscosity can be controlled by using alkali-soluble thickeners such as Hycryl<sup>®</sup> 0262 (<sup>3</sup>) and associative thickeners such as Rheolate<sup>®</sup> 278 (<sup>4</sup>), Coapur<sup>™</sup> 3025 or Rheotech<sup>™</sup> 2100 (<sup>5</sup>). The use of defoamers such as Agitan<sup>®</sup> 281(<sup>6</sup>) is recommended.

Notes: (<sup>1</sup>) Eastman Chemical Company, (<sup>2</sup>) Dow Notes: (<sup>3</sup>) Arkema, (<sup>4</sup>) Elementis Specialties, (<sup>5</sup>) Coatex, (<sup>6</sup>) Münzing Chemie GmbH

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

ENCOR<sup>®</sup> 5425 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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Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.

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