

TECHNICAL DATA SHEET

ENCOR[®] 5185

Styrene acrylic Emulsion

PRODUCT APPLICATION DETAILS

ENCOR[®] 5185 is a low VOC, styrene-acrylic latex, free from coalescing agents, plasticizers, APE surfactants and ammonia.

ENCOR[®] 5185 is recommended for the manufacturing of plasticizer-free liquid roofing membranes and as primers for ceramic tiles and flooring screeds.

ENCOR[®] 5185 finds also application in the formulation of low cost sealing compounds.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (105°C)	49 - 51 %	ISO 3251
pH	7.0 - 8.5	ISO 976
Viscosity (Brookfield RVT , 20rpm) (23°C)	500 - 2500 mPa.s	ISO 2555

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Stabilizing system	A / NI	-
Minimum film formation temperature	< 1 °C	ISO 2115
Glass transition temperature	8 °C	DSC
Density (23°C)	1.03 g/ml	ISO 2811
Average particle size	150 nm	ISO 13321
Freeze thaw stability	- 5 °C	ISO 1147

^{*}Product formulated without formaldehyde or formaldehyde releasers. During normal conditions of use, this binder does not generate formaldehyde.

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

MARKETS

Building & Construction

- Construction Materials
- Other Construction Materials

PERFORMANCE BENEFITS

- Low VOC content
- Formaldehyde free^{*}
- High binding power

ENCOR[®] 5185

FORMULATION GUIDELINES

Rheology and viscosity can be controlled by using alkali-soluble thickeners such as Hycryl[®] 0262 ⁽¹⁾ and associative thickeners such as Rheolate[®] 278 ⁽²⁾, Coapur[™] 3025 or Rheotech[™] 2100 ⁽³⁾. The use of defoamers such as Agitan[®] 281⁽⁴⁾ is recommended.

Notes: ⁽¹⁾ Arkema, ⁽²⁾ Elementis Specialties, ⁽³⁾ Coatex, ⁽⁴⁾ Münzing Chemie GmbH

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

ENCOR[®] 5185 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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