

TECHNICAL DATA SHEET

ENCOR[®] 5100

Styrene acrylic Emulsion

PRODUCT APPLICATION DETAILS

ENCOR[®] 5100 is a high solids, cement-compatible styrene-acrylic latex. This product is free from coalescing agents, plasticizers and APE surfactants.

ENCOR[®] 5100 is ideally suited for the modification of Portland cement and other hydraulic binder systems. It finds application in the formulation of two-component membranes, sealing and bonding slurries as well as water resistant ceramic tile adhesives.

ENCOR[®] 5100 may also be used in the formulation of sealants, liquid roofing elastomeric membranes and for the modification of anionic bitumen emulsions.

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 CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Stabilizing system	A / NI	-
Minimum film formation temperature	< 1 °C	ISO 2115
Glass transition temperature (DSC)	- 8 °C	-
Density (23°C)	1.03 g/ml	ISO 2811
Average particle size	300 nm	ISO 13321

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
 - Waterproofing Membrane

PERFORMANCE BENEFITS

- Elasto-plastic and permanently flexible film (till -5°C)
- High adhesion to mineral substrates
- Excellent water, chemical and alkali resistance

ENCOR® 5100

FORMULATION GUIDELINES

The use of defoamers is recommended to avoid air entraining during the mortar mixing phase.
The use of thickeners has to be carefully checked in advance as some of them can cause stiffening phenomena and can interfere in the setting process.
Air cure conditions have to be applied for optimum strength properties of cement-based systems.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

ENCOR® 5100 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

Headquarter: Arkema France
51, Esplanade du Général de Gaulle
92800 Puteaux – France
T +33 (0)1 49 00 80 80

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