

TECHNICAL DATA SHEET

ENCOR[®] 5116

Styrene acrylic Emulsion

PRODUCT APPLICATION DETAILS

ENCOR[®] 5116 is a low VOC, high solids, cement-compatible styrene-acrylic latex. This product is free from coalescing agents, plasticizers and APE surfactants.

ENCOR[®] 5116 is a binder specifically designed for the formulation of flexible and waterproofing two-component cement based membranes, characterised by low surface tackiness. This product finds also application in the formulation of repairing mortars as well as ceramic tile adhesives and sealants.

Thanks to the low VOC content and the absence of ammonia development during the mixing and setting phases, this product is particularly suggested for indoor applications.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (105°C)	59 - 60 %	ISO 3251
pH	6,0 - 8,0	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)	-1 °C	DSC
Average particle size	250 nm	ISO 13321

^{*}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

Coatings & Inks

- Architectural Coating
 - Elastomeric Wall
 - Exterior Wall
 - Specialty Coatings

Building & Construction

- Construction Materials
 - Waterproofing Membrane

PERFORMANCE BENEFITS

- No ammonia release
- Low VOC content (< 1000 ppm)
- Formaldehyde free^{*}
- Good water, chemical and alkali resistance
- Good adhesion to mineral substrates

ENCOR[®] 5116

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[®] 5116 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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