

ENCOR[®] 5116

CONSTRUCTION

ARKEMA COATING RESINS

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

Product Application details

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.

Performance Benefits

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

* product formulated without formaldehyde or formaldehyde releasers. During normal conditions of use, this binder does not generate formaldehyde

Polymer Type

- Styrene-acrylic Copolymer

Sales Specifications

Solid Content at 105°C, % (ISO 3251)	59 - 60
pH (ISO 976)	6,0 - 8,0
Viscosity at 23°C, mPa.s (Brookfield RVT , 20rpm) (ISO 2555)	500 - 1500

Other Characteristics¹

Stabilizing system	A / NI
Minimum Film Formation Temperature, °C (ISO 2115)	<1
Tg (DSC), °C	-1
Average Particle size, nm (ISO 13321)	250

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

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 & 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 6 months from the shipping date

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