

ENCOR® 5425

CONSTRUCTION

ARKEMA COATING RESINS

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

Product Application details

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

ENCOR® 5425 finds also application in the formulation of cost effective pigmented sealants.

Performance Benefits

- Cost effective
- Low VOC content
- Formaldehyde free*

* 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)	49 - 51
pH (ISO 976)	7.5 - 8.5
Viscosity at 23°C, mPa.s (Brookfield RVT, 20rpm, sp5) (ISO 2555)	5000 - 9000

Other Characteristics¹

Stabilizing system	A / NI
Minimum Film Formation Temperature, °C (ISO 2115)	21
Tg (DSC), °C	23
Density / Specific Gravity at 23°C, g/ml (ISO 2811)	1.02
Average Particle size, nm (ISO 13321)	130

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

Rheology and viscosity can be controlled by using alkali-soluble thickeners such as HYCRYL® 0262 (3) and associative thickeners such as Rheolate® 278 (4), Coapur™ 3025 or Rheotech™ 2100 (5).

The use of defoamers such as Agitan® 281(6) is recommended.

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

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

ENCOR® 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 6 months from the shipping date

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Arkema Coating Resins

420, rue d'Estienne d'Orves

92705 Colombes Cedex - France

arkema.com - arkemacoatingresins.com

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