

TECHNICAL DATA SHEET

ENCOR[®] 2138

Acrylic Emulsion



Suitable for solvent-free and coalescent-free paints



without alkylphenolethoxylates, ammonia, solvent nor formaldehyde

PRODUCT APPLICATION DETAILS

ENCOR[®] 2138 is a pure-acrylic emulsion formulated with no alkylphenolethoxylates, ammonia, solvent nor formaldehyde.

Based on ARKEMA's new technology for the development of high binding binders, ENCOR[®] 2138 is designed to be used in the formulations of low VOC plasters; interior paints exhibiting excellent wet scrub resistance; it is also perfectly adapted to exterior wall paints.

Thanks to its very high binding power, ENCOR[®] 2138 allows to increase the PVC of the paint without compromising its wet scrub resistance. Its specific structure is known to limit the migration of surfactants and other leaching species, limiting "snail effect". Its low Minimum Film Formation Temperature allows the formulation of solvent-free and also coalescent-free paints. Applied at low temperature without any coalescing agent, high PVC paints based on ENCOR[®] 2138 keep their good wet scrub resistance.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (105°C)	49 - 51 %	ISO 3251
pH	8.0 - 9.0	ISO 976
Viscosity (Brookfield RVT , 20rpm) (23°C)	1000 max mPa.s	ISO 2555

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Stabilizing system	A / NI	
Minimum film formation temperature	< 5 °C	ISO 2115
Density	1.06 g/ml	ISO 2811

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
 - Exterior Wall
 - Interior Wall
 - Interior Paints
 - Exterior Paints
 - Plasters / Spackles

PERFORMANCE BENEFITS

- Low MFFT
- High binding power
- High flexibility
- Good durability
- Good adhesion onto alkaline substrates

ENCOR[®] 2138

FORMULATION GUIDELINES

Rheology

Rheology and viscosity can be controlled using associative thickeners such as Coapur[™] 3025 ⁽¹⁾, Rheotech[™] 2000 ⁽¹⁾, Coapur[™] 2501;⁽¹⁾ or Coapur[™] 830 W ⁽¹⁾, Rheolate[®] 666 ⁽³⁾ is also suitable, as well as cellulosic thickeners such as Natrosol[®] 250 HHR ⁽²⁾.

Other additives

The use of defoamers is recommended, Foamaster[®] MO 2134 ⁽⁴⁾ or Agitan[®] 281 ⁽⁵⁾ have proved to be efficient.

⁽¹⁾ Arkema Rheology and Specialty Additives, ⁽²⁾ Ashland Specialty Ingredients, ⁽³⁾ Elementis Specialties, ⁽⁴⁾ BASF, ⁽⁵⁾ Münzing Chemie GmbH

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

ENCOR[®] 2138 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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