ENCOR® 2140

(FORMERLY E 21014)

ARCHITECTURAL COATINGS

ARKEMA COATING RESINS

Product Application details

ENCOR® 2140 is a pure acrylic emulsion formulated without alkylphenol ethoxylates and formaldehyde.
ENCOR® 2140 is to be used as binder for high quality exterior paints.

Performance Benefits

- High UV resistance and exterior durability
- High solid contents

Polymer Type

- Acrylic Emulsion

Sales Specifications

(provisional*)

Solid Content at 105°C, % (ISO 3251)	59 - 61
pH (ISO 976)	8.0 - 9.0
Viscosity at 23°C, mPa.s (Brookfield RVT , 20rpm) (ISO 2555)	2000 - 6000

* These specifications are subject to change in the light of manufacturing experience, up to the point of full commercialisation

Other Characteristics[1]

Stabilizing system	A / NI
Minimum Film Formation Temperature, °C (ISO 2115)	6
Density / Specific Gravity, g/ml (ISO 2811)	1.09
Average Particle size, nm (ISO 13321)	350
Freeze Thaw Stability, °C (ISO 1147)	- 5

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

Formulation Guidelines

RHEOLOGY

Rheology and viscosity can be adjusted using associative thickeners, such as Coapur™ 830 W (1) or Rheolate® 278 (2). Cellulosic thickeners are also adapted, namely Natrosol® 250 HHR (3).

OTHER ADDITIVES

Despite its low MFFT, coalescing agents, such as Texanol® (4) can be added to the formulation in order to improve the film formation, especially when applied in drastic conditions (low temperature and / or low relative humidity).
The use of defoamers can be recommended, Foamaster® MO 2134 (5) has proved to be efficient.

Notes: (1) Coatex, (2) Elementis Specialties, (3) Ashland Specialty Ingredients, (4) Eastman Chemical Company, (5) BASF

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INNOVATIVE CHEMISTRY

Product Safety	Please refer to the corresponding Safety Data Sheet.
Storage & Handling	ENCOR® 2140 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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