

# ENCOR<sup>®</sup> 2140

ARCHITECTURAL COATINGS

(FORMERLY E 21014)

ARKEMA COATING RESINS

**Product Application details** ENCOR<sup>®</sup> 2140 is a pure acrylic emulsion formulated without alkylphenol ethoxylates and formaldehyde. ENCOR<sup>®</sup> 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

<b>Sales Specifications</b> (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

<b>Other Characteristics<sup>1</sup></b>	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

<sup>1</sup> 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<sup>™</sup> 830 W (1) or Rheolate<sup>®</sup> 278 (2). Cellulosic thickeners are also adapted, namely Natrosol<sup>®</sup> 250 HHR (3).

OTHER ADDITIVES  
Despite its low MFFT, coalescing agents, such as Texanol<sup>®</sup> (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<sup>®</sup> MO 2134 (5) has proved to be efficient.

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

---

**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

---

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Arkema expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement. See SDS for Health & Safety Considerations.

Arkema has implemented a Medical Policy regarding the use of Arkema products in medical devices applications that are in contact with the body or circulating bodily fluids (<http://www.arkema.com/en/social-responsibility/responsible-product-management/medical-device-policy/index.html>) Arkema has designated medical grades to be used for such medical device applications. Products that have not been designated as medical grades are not authorized by Arkema for use in medical device applications that are in contact with the body or circulating bodily fluids. In addition, Arkema strictly prohibits the use of any Arkema products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Arkema trademarks and the Arkema name shall not be used in conjunction with customers' medical devices, including without limitation, permanent or temporary implantable devices, and customers shall not represent to anyone else, that Arkema allows, endorses or permits the use of Arkema products in such medical devices.

It is the sole responsibility of the manufacturer of the medical device to determine the suitability (including biocompatibility) of all raw materials, products and components, including any medical grade Arkema products, in order to ensure that the final end-use product is safe for its end use; performs or functions as intended; and complies with all applicable legal and regulatory requirements (FDA or other national drug agencies). It is the sole responsibility of the manufacturer of the medical device to conduct all necessary tests and inspections and to evaluate the medical device under actual end-use requirements and to adequately advise and warn purchasers, users, and/or learned intermediaries (such as physicians) of pertinent risks and fulfill any postmarket surveillance obligations. Any decision regarding the appropriateness of a particular Arkema material in a particular medical device should be based on the judgment of the manufacturer, seller, the competent authority, and the treating physician.

**Arkema Coating Resins**

420, rue d'Estienne d'Orves

92705 Colombes Cedex - France

arkema.com - [arkemacoatingresins.com](http://arkemacoatingresins.com)

**ARKEMA**  
INNOVATIVE CHEMISTRY