

ENCOR® 412

Acrylic Emulsion Polymer

Product Benefits

ENCOR® 412 latex is a non-ammonia version of ENCOR® 413 latex and developed for longer open time. ENCOR® 412 latex is an acrylic emulsion polymer specifically developed for use in the polymer modification of portland cement and other hydraulic cement compositions. Cementitious products modified with ENCOR® 412 latex show improved bond strength to a variety of substrates, including concrete and masonry, wood, and insulating foams. In addition, ENCOR® 412 latex improves the flexural and tensile strengths of hydraulic cement concretes. This multicomponent acrylic polymer resists saponification and demonstrates good exterior durability with resistance to UV light and moisture.

Polymer Design

- Acrylic

Performance Benefits

- Improved bond strength
- Good exterior durability
- Resistant to UV light and moisture

Typical Polymer Properties¹

Appearance	White, milky liquid
Total Solids, % by weight	46–48
pH Value	7.5
Viscosity, LVT #3, 60 rpm, cp	50
Weight per Gallon, 20 °C, lb	8.8
Freeze-Thaw Stability	Good
Minimum Filming Temperature, 50% R.H., °C	13

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



**Product
Safety**

Before handling the materials listed in this bulletin, read and understand the product MSDS (Material Safety Data Sheet) for additional information on personal protective equipment and for safety, health and environmental information. For environmental, safety and toxicological information, contact our Customer Service Department at 1-866-837-5532 to find an MSDS, or visit our web site: www.arkemacoatingresins.com

No chemical should be used as or in a food, drug, medical device, or cosmetic, or in a product or process in which it may contact a food, drug, medical device, or cosmetic until the user has determined the suitability and legality of the use. Since government regulations and use conditions are subject to change, it is the user's responsibility to determine that this information is appropriate and suitable under current, applicable laws and regulations.

Arkema Coating Resins requests that the customer read, understand, and comply with the information contained in this publication and the current MSDS(s). The customer should furnish the information in this publication to its employees, contractors, and customers, or any other users of the product(s), and request that they do the same.

**Storage and
Handling**

Follow procedures typically recommended for polymer dispersions. Use corrosion-resistant storage tanks and piping. Air-operated diaphragm pumps are preferred. Avoid temperature extremes. Do not freeze; store between 4-40°C.



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