ENCOR® 169S

Styrene Acrylic Binder for High Performance Sealers

Product Benefits

ENCOR® 169S latex was developed as a binder for high-performance translucent and pigmented sealants. It combines exceptional stress-strain properties with a low glass transition temperature to provide the elasticity required to meet the performance standards of ASTM C 920 when properly formulated. The high latex solids provide wide formulation latitude and low sealant shrinkage, which can reduce the cracking tendency of paints applied over fresh sealant. The latex has inherently good pigment binding capacity that allows formulation of ASTM C 834 compliant sealants with pigment-to binder weight ratios of 5 to 1.

ENCOR® 169S latex has high initial clarity and has shown excellent durability during extended QUV, Xenon arc Weather-O-Meter, and exterior exposure. The vehicle is very hydrophobic, exhibits low water absorption, and has high peel adhesion values to typical architectural substrates under wet and dry conditions. An organofunctional silane resin is typically required for adhesion under extended water immersion.

Polymer Design

- Styrene Acrylic

Performance Benefits

- Exceptional stress-strain properties
- Low glass transition temperature
- Wide formulation latitude
- Low sealant shrinkage
- Inherently good pigment binding
- Low water absorption
- High peel adhesion values
- Excellent durability

Typical Polymer Properties[1]

Total Solids, % by weight	62.5
Weight per Gallon	
Latex	8.6
Polymer	9.4
pH Value	6.0
Particle Size, microns	0.3
Viscosity, 20 °C, cP (Brookfield, LVT #3, 60 rpm)	500
Glass Transition Temperature (Tg), midpoint, °C	-22
Minimum Filming Temperature (MFT), °C	<0
Free Film, Tensile Maximum, psi	25
Elongation at break, %	1300

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

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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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Arkema Coating Resins
410 Gregson Dr.
Cary, NC 27511

Telephone:
1.800.777.8227

Visit our website:
www.arkemacoatingresins.com