

ENCOR[®] 5181

Styrene-acrylic latex for construction application

Product Description ENCOR[®] 5181 is a styrene acrylic latex characterized by excellent alkali resistance and compatibility with hydraulic binders and anionic bitumen emulsions. The latex yields a transparent, elastomeric and permanently flexible film.

ENCOR[®] 5181 is formulated without alkylphenolethoxylates, plasticizers, formaldehyde or formaldehyde donors.

- Performance Benefits**
- Broad compatibility with Portland cement
 - Excellent alkali resistance
 - Good balance of mechanical properties in cementitious coatings

Sales Specifications	Solid Content, % (105°C) (ISO 3251)	55-57
	Brookfield Viscosity (RVT #3 @ 20rpm, 25°C), mPas(ISO 2555)	200 – 1500
	Ph (ISO 976)	6.0 – 8.0

Typical Properties	MFFT, °C (ISO 2115)	~0
	Tg, °C (DSC)	-10
	Specific Gravity, g/cm ³ (ISO 2811)	1.018-1.042
	Freeze Thaw Stability (ISO 1147)	-5
	Average Particle size, microns	0.20-0.40
	Stabilizing system	Anionic/Non-ionic

Application Guidelines ENCOR[®] 5181 is used for the modification of hydraulic binder systems. It imparts liquid consistency and good workability to wet compounds as well as high adhesion, low temperature flexibility (-10°C) and good water and chemical resistances to the cured coatings or membranes.

Suggested applications are: two-component, flexible waterproofing and crack bridging cementitious coatings, sealing and bonding slurries, exterior insulation finish system and water resistant ceramic tile adhesives.

ENCOR[®] 5181 may also be used in the formulation of flexible roofing membranes and applied in combination with bitumen emulsions.

The use of defoamer is recommended to avoid air entrapment during the mixing phase. It is advisable to add a small amount of suitable preservative to products containing ENCOR[®] 5181 to ensure adequate shelf life. The suitability of the preservative must be tested and monitored.



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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.

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 5-35°C.

Under the above mentioned storage conditions, shelf life of the product is 6 months from the shipping date.



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