

# ENCOR<sup>®</sup> Flex 192

Modified Acrylic Latex for Adhesion to Weathered TPO Roofing Membranes

<b>Product Description</b>	ENCOR <sup>®</sup> Flex 192 is an ambient crosslinking, modified acrylic latex designed for use in elastomeric coatings which extend the service life of weathered TPO membranes.	
<b>Polymer Design</b>	<ul style="list-style-type: none"> <li>Modified Acrylic Latex with ambient cross-linking</li> </ul>	
<b>Performance Benefits</b>	<ul style="list-style-type: none"> <li>Suitable for self priming elastomeric coatings with excellent adhesion to aged TPO membranes eliminating the need for solvent based primer for reduced overall system VOC and cost</li> <li>Ambient crosslinking functionality for increased toughness and superior dirt pick up resistance</li> <li>High solids for greater formulating latitude</li> <li>Meets ASTM D-6083 performance standards for elastomeric coatings</li> </ul>	
<b>Typical Polymer Properties<sup>1</sup></b>	Total Solids, % by weight	60
	Latex Weight per Gallon, lb	8.7
	pH Value	8
	Particle Size, μm	0.35
	Viscosity, Brookfield, cP	500
	Minimum Film Forming Temperature (MFFT), °C	0
	Glass Transition Temperature (Tg), °C	-21

<sup>1</sup>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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### Elastomeric Roof Coating for TPO Restoration

<i>Ingredients</i>	<i>Pounds</i>	<i>Volume</i>
<b><u>Pigment Grind</u></b>		
Water	134.4	16.13
Propylene Glycol (Solvent)	10.0	1.16
Ecodis P 30 (Dispersant)	4.3	.43
NATROSOL 250 MBR (HEC Thickener)	1.5	.15
Ammonium Hydroxide [28%] (Base)	1.5	.2
Foamstar A10 (Defoamer)	2.0	.27
Ti-Pure R-960 (TiO <sub>2</sub> )	75.0	2.25
Omyacarb 10 (CaCO <sub>3</sub> )	380.0	16.84
In-can preservative (Preservative)	2.0	.21
Mildewcide (Biocide)	<u>15.0</u>	<u>1.45</u>
	625.7	39.09
<b><u>Letdown</u></b>		
ENCOR® Flex 192 (Binder-Latex)	490.1	55.07
Foamstar A10 (Defoamer)	2.0	.27
Texanol (Solvent)	6.0	.76
Ammonium Hydroxide [28%] (Base)	1.5	.2
Water	36	4.36
NATROSOL 250 MBR (HEC Thickener)	<u>2.5</u>	<u>.25</u>
<b>Total:</b>	<b>1163.8</b>	<b>100.00 gallons</b>

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### Formulating Guidelines

- Avoid associative thickeners due to water sensitivity
  - Extenders should be limited to low oil absorption and particle sizes above 10um
  - Zinc oxide should be avoided due to interference with bonding chemistry when used on TPO
  - Keep pigment volume concentration less than 45%; higher PVCs can lower adhesion results
  - Apply to properly cleaned TPO membranes with at least two years of UV exposure and without excessive deterioration or scrim exposed
  - Field testing is recommended to assure adhesion
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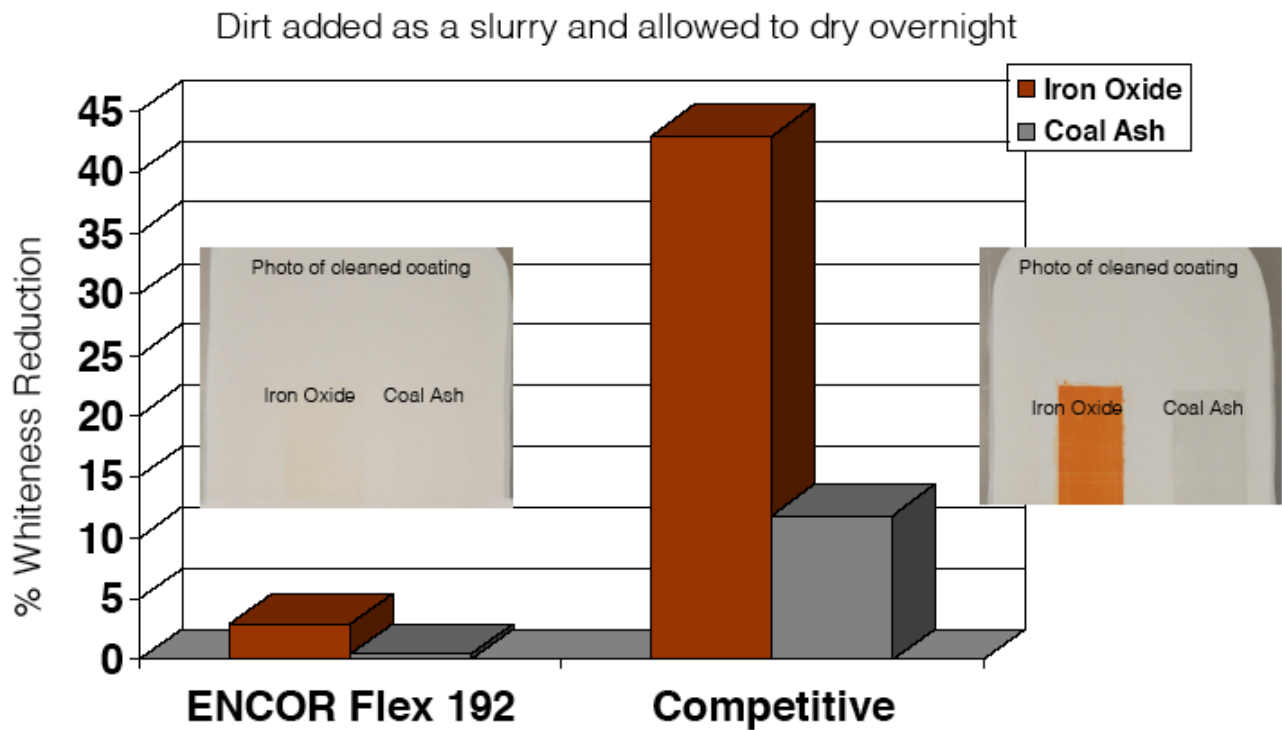
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### Film Performance

### Dirt Pickup Resistance

Coatings formulated with ENCOR® Flex 192 display superior dirt pickup resistance compared to competitive commercial formulations.



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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](http://www.arkemacoatingresins.com)

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### 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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