SAMIflex E HR

High Binder Content Emulsion Series
Sustainability - Safety - Environment

Member of the worldwide Colas Group

Australia
ENVIRONMENTALLY FRIENDLY SPRAYED SEALS

SAMIflex E HR Series are Polymer Modified Cationic Bitumen Emulsions for sprayed seal application and are used as an alternative to hot modified binders or conventional bitumen.

Polymer modification can be up to 7% and the residual binder content is normally in the range of 75% to 78%. Specific site requirements will determine the degree of polymer modification required.

PRODUCT RANGE AND SPECIFICATIONS

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<th>PRODUCT</th>
<th>AUSTROADS</th>
<th>QLD TMR</th>
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<tbody>
<tr>
<td>SAMIflex CRS HR (unmodified)</td>
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<tr>
<td>SAMIflex E30 HR</td>
<td>S10E</td>
<td>S0.25S</td>
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<td>SAMIflex E40 HR</td>
<td>S15E</td>
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<td>SAMIflex E50 HR</td>
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<td>SAMIflex E60 HR</td>
<td>S25E</td>
<td>S4.5S</td>
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<td>SAMIflex S35E HR</td>
<td>S35E</td>
<td>S0.3B</td>
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PERFORMANCE BENEFITS

- OH & S / Environment - No Cutter (Kerosene)
- Energy savings - Sprayed at much lower temperatures compared to hot binders (85 to 95°C)
- Less sensitive to atmospheric conditions
- Allows high polymer modification
- Allows for higher residual binder application and less water to be transported
- Maximum adhesion through the wetting of the aggregate
- Less degradation of polymer
- Less likely to strip with slight drizzle or sudden change in temperature and weather conditions soon after application
- High Viscosity - No risk of run-off
- Faster breaking and setting
- Traffic opened quicker
- Homogenous residual binder in compliance with specifications as opposed to rubber latex emulsions
- Classified by the relevant authorities as being non-hazardous and non-dangerous products
APPLICATION

- New seals over properly prepared surfaces
- Reseals over pavements exhibiting surface cracking
- Pavements with high deflections
- Where waterproofing of surface is necessary
- As a Strain Alleviating Membrane (SAM), a Strain Alleviating Membrane Interlayer (SAMI) or a High Stress Seal (HSS)

SAMIFLEX E HR VS LATEX MODIFIED EMULSIONS

PRACTICAL BENEFITS

SAMIflex E HR emulsions have been used in many locations as the preferred product to satisfy specific requirements:

- Melbourne City Link Tunnel – to avoid the use of solvent for health, safety and environmental benefits
- Canberra, ACT and Phillip Island, Vic – for high polymer content sealing during winter
- Bathurst, NSW – to reduce aggregate stripping with high polymer content
- Campbelltown, NSW – for night time sealing work in order to avoid day time heavy traffic
- Lake Macquarie, NSW – for sealing in environmentally sensitive areas to eliminate solvent use
- Several locations in Vic – sealing in cold and damp conditions using wet aggregates
- Redland Shire, QLD – for high polymer modified binder sealing during winter
- Cooma-Monaro and Eden-Monaro, NSW – SAMIflex E50 HR being used each year on roads in these areas by Roads and Maritime Services
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