

High Quality Emulsions Made Easy using Kraton Polymers

Kraton D1192 and Kraton D0243

Kraton D1192 and Kraton D0243 are the most technologically-advanced and user-friendly polymer options for use in the manufacture of pre-modified asphalt emulsions

Enhanced Polymer Compatibility

- ▶ Improved compatibility in a wide range of base asphalts
- ▶ Low shear blending option
- ▶ Streamline formulations through a single polymer

Lower Modified Asphalt Viscosity

- ▶ Leads to smaller particle size and narrower distribution
- ▶ Allows for emulsification on ambient pressure equipment
- ▶ Potential for improved performance through higher polymer loading

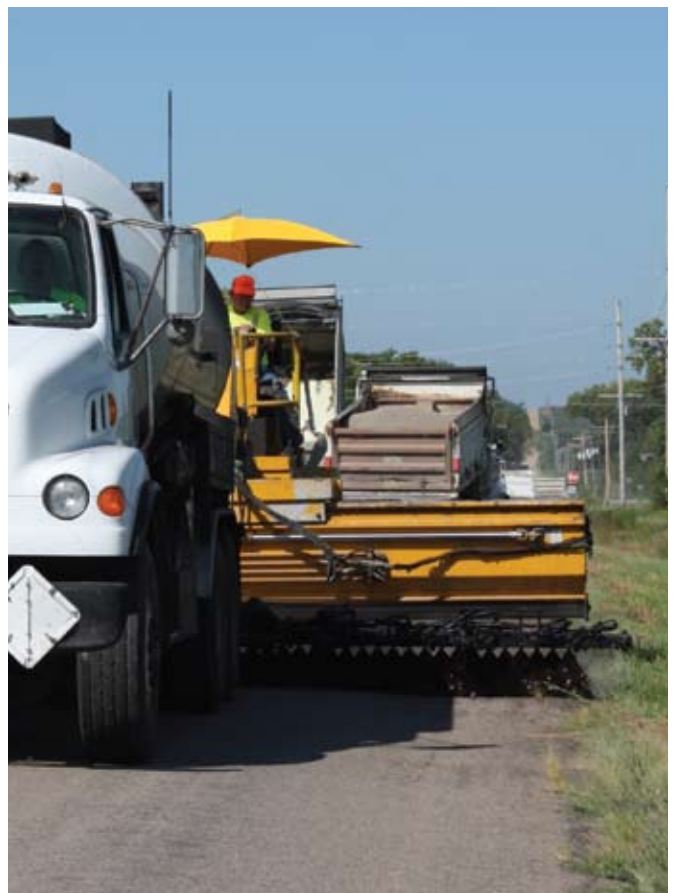
Superior Liquid Emulsion Properties

- ▶ Excellent initial and long-term emulsion viscosity and storage stability
- ▶ Improved resistance to shear and pumping processes
- ▶ Optimal balance of break and set properties
- ▶ Can tune emulsion viscosity easily as a function of residue content

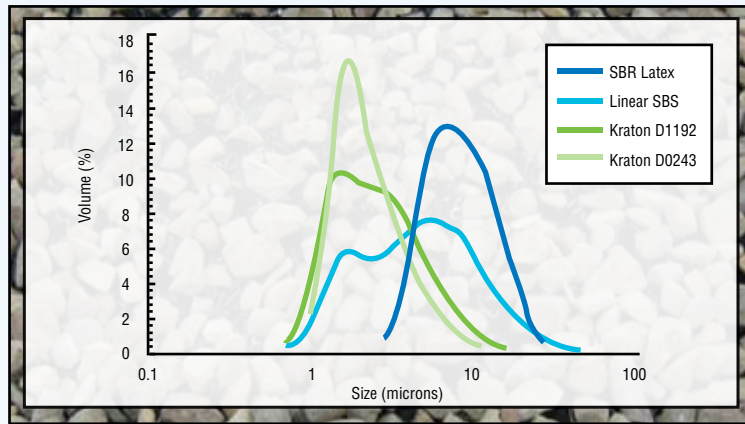
Improved Emulsion Paving Solutions

- ▶ Better chip retention
- ▶ Extended pavement system durability

Call Kraton today for more information and choose Kraton D1192 and Kraton D0243 for your next high-quality, pre-modified emulsion design.

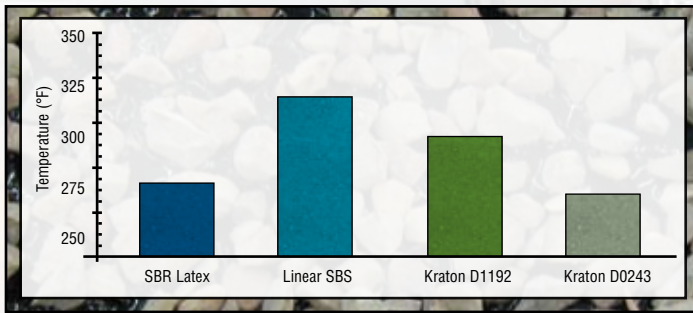


Particle Size Distribution of SBR Latex, Linear SBS, Kraton D1192 and Kraton D0243-Modified CRS-2P Emulsions



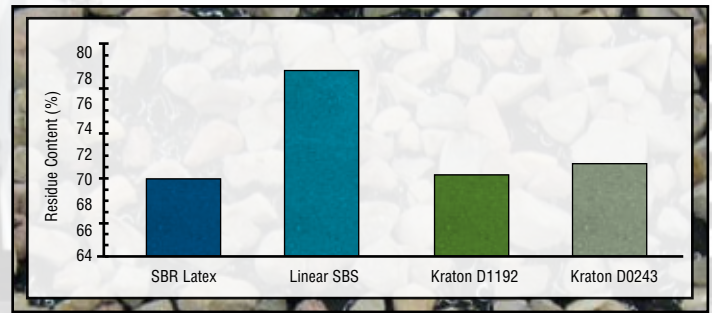
The high vinyl butadiene microstructure in Kraton D1192 and Kraton D0243 allows for production of pre-modified emulsion with small average particle size and narrow distribution.

Asphalt Emulsification Temperature (°F)



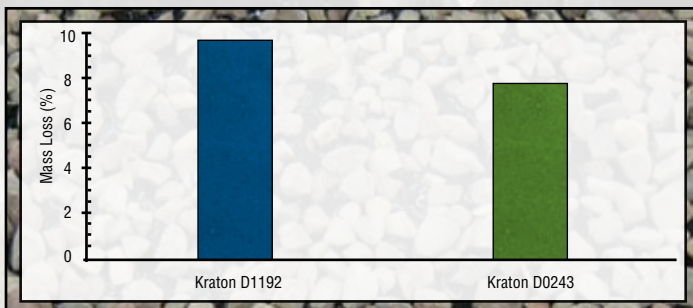
Kraton D1192 and Kraton D0243 pre-modified binders can be emulsified at low temperature

Distilled Residue (%) at Target Saybolt Vis. (122°F, sec.)



Kraton D1192 and Kraton D0243-modified CRS-2P emulsions can be produced at low residue content

ASTM D7000 Sweep Test Mass Loss (%) - 35°C Cure for 2 Hours



Kraton D1192 and Kraton D0243-modified CRS-2P emulsions exhibit excellent early strength development. Penetration of each distilled residue was 116 dmm and 106 dmm, respectively.



Figure 2 - Kraton D1192-Modified CRS-2P Emulsion Sweep Test Pad - Post-Sweep

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