

TECHNICAL DATA SHEET

STONE LOCK FOG SEAL



Stone Lock Fog Seal is a quick set, recycled tire modified hard pen asphalt that when applied through a heated (>150°F) distributor truck, provides *so much more value* than conventional asphalt fog seals:

- Fully cures as low as 40°F & at nighttime
- Quick set chemistry means minimal traffic disruption
- Permanently water resistant upon turning black (will not leach)
- Forms a continuous, flexible, waterproof seal protecting the underlying substrate
- High molecular weight bitumen base very oxidative resistant
- Three times more sun & heat resistant than standard fog seals
- Very scuff resistant usually outlasts regular asphalt seals by several years
- ‘Skid neutral’ performance for the driving lanes
- Much more fuel tolerant than standard asphalt sealers
- Excellent stone adhesion plus higher cohesive strength locks down raveling prone pavement surfaces



Stone Lock Fog Seal is a quick set light texture (QSLT) material consisting of a base, hard pen asphalt emulsion which is further prepared for resistance to environmental & chemical destruction through the interfusing of NEOS™ bio-resin modified ground tire rubber. Upon application the *Stone Lock* Fog Seal penetrates deep into tiny fissures and asphalt voids rejuvenating and flexibilizing the uppermost region of aged and embrittled asphalt.

Fully cured applications are possible down to 40°F & at night using conventional equipment at spread rates of ca 0.10gal/sq. yd. is performed after a typical field dilution of 50%.

Physical Properties

Cationic emulsion	pH = 2.5 - 4.5
Anionic emulsion	pH = 8.0 – 10.0
Solids by distillation	60 – 63%
Penetration	2-12 dmm
Ductility (cm)	40 min
Viscosity (Emulsion)	>100 sec

(For more information please visit www.coe-polymer.com)
Consult MSDS before use. Do not allow to freeze.

Environmental Properties

Health/Fire/Reactivity	1-0-0
HAPs - PAHs	None
VOC	Zero
Toxicity/Carcinogenicity	None/None
Municipal Landfill (residue)	Yes
Aquatic Life	Not a Threat
Carbon Footprint	Zero

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What are the advantages of *Stone Lock Fog Seal* over conventional fog seals?

Pavement microtexture is an important characteristic playing a critical role in pavement friction and ultimately skid resistance. When conventional emulsion fog seals are applied they tend to fill in the existing pavement’s microtexture reducing the individual stone surface roughness. This results in lower post application coefficient of friction (skid negative). *Stone Lock Fog Seal* upon curing, forms a matrix of quick setting hard resin, rubber, and ultra fine stone which is designed to maintain the existing microtexture, thereby imparting a skid neutral surface.

Performance/Characteristic	<i>Stone Lock Fog Seal</i>	Conventional Fog Seal
Pavement Microtexture	Maintained	Diminished
Skid Resistance	Neutral	Reduced
Hot Application	Yes	Yes
Cure Time (typical)	≤ 15 min	≤ 15 min
Polymer	≥5%	0%
Ultra Fine Stone	≥15%	0%
Bituminous Resin	Hard Pen (refined)	Soft Pen (variable)

What if I want even more performance than a ‘skid neutral’ material that can be applied through my distributor truck?

If your pavement requires a material that can be applied through your distributor truck yet gives you *improved skid resistance* to the existing surface then a medium texture treatment is needed. The **Stone Wrap™** is a cold applied, slow set medium texture (SSMT) system that provides improved protection along with moderate profile restoration and can be sprayed through a standard distributor truck. Please refer to the **Stone Wrap™** technical data sheet for more information.