

SAMIscreed

Asphalt Repair Mastic

Product Description

SAMIscreed is a hot-applied, polymer-modified mastic asphalt binder; factory-blended with graded fillers, steel fibers, granite aggregates and recycled tire rubber. It is designed to replace traditional hot pour crack sealants which lack structural strength and other more rigid patches like cold patch or hot mix that are prone to failure due to their stiffness or poor quality. When specifications limit aggregate to 1/8", SAMIscreed 18 is used. SAMIscreed meets all requirements of ASTM D8260 Type I and Type II hot-applied asphalt aggregate-filled mastic.

Basic Uses

SAMIscreed is a flexible asphalt mastic repair for cold joints, overlaid joints, large cracks, spalls, and pot holes in asphalt.

Features and Benefits

- Load transferring repair with superior tensile strength and flexibility.
- Accommodates limited joint/crack movement due to thermal expansion and contraction, and vibratory movements.
- Flexible, enduring, skid-resistant finish.
- Resistant to water intrusion and broad range of salts, bases and organic materials.
- Year round application with no temperature limitations.
- Extends the service life of asphalt.
- Rapid cure allows repairs to be open to traffic within 30 minutes.

Physical Properties*

Property	Value
Color	Black
Mastic Resilience	50% minimum
Effects of Rapid Deformation	No cracking, chipping, or separation, 8 N-m, -7 °C No cracking, chipping, or separation, 8 N-m, -18 °C
Crack Bridging	3 cycles, -7 °C 3 cycles, -18 °C
Mastic Stability	40.0 mm maximum @ 70°C 40.0 mm maximum @ 60°C
Asphalt Binder Cone Penetration	<60mm @ 77 °F <120mm @ 122 °F
Tensile Adhesion	35 psi – 1.5" elongation at failure
Softening Point (R&B)	198 °F
Impact Testing	Pass: no cracking, chipping or separation
Recommended Application Temperature	370 – 400 °F
Specific Gravity	1.7 – 2.0

* The values shown are based on system testing under laboratory conditions. Different field application conditions or lab equipment configurations may result in system value variances.

Packaging

- 40 pound meltable bag
- Average Consumption Rate: 100 lb/cf with bulking stone, 115 lb/cf without bulking stone.

Health and Safety

See SDS for complete safety precautions prior to use. Use HSE-approved personal protective equipment (PPE), including safety glasses, gloves and confined space equipment/procedures if applicable. Avoid skin contact; do not ingest. For professional use only.

Installation

Site Preparation

The repair surfaces will be cleaned and dried with a hot air lance. All loose debris must be removed. If desired, a jack hammer or milling machine may be used to clean and prepare the area to be repaired.

Application

Application of the SAMIscreed material shall be by factory trained and certified installation professionals.

SAMIscreed material is heated in a thermostatically controlled, purpose-built mixer, having a horizontal agitator that ensures complete mixing. Once the material reaches approximately 370 to 400 °F (189 to 204 °C), pour molten SAMIscreed into the prepared area, sealing the bottom of the repair from water intrusion.

When using as a patching material, If the depth of the repair exceeds 1 inch and the width exceeds 4 inches, the remainder of the repair process will consist of layering coarse, hot angular aggregate (cleaned and dried) at a rate of 25% - 55% by volume with the molten SAMIscreed until within 3/4" of the top of the repair. The bulking aggregate must be worked into the patch completely. **NO DRY LAYERS OF BULKING AGGREGATE WILL BE ALLOWED.**

The final 3/4" of the repair will be SAMIscreed material for optimum flexibility of the repair. This top layer must be screeded to a level grade. Depending on the depth of the repair, the SAMIscreed material will be ready for traffic return between 30 minutes to 1 hour.

When using as a wide crack filler 1-4" wide, use a screed box to deliver the molten material to the repair area. Use multiple passes as necessary to ensure that the molten material is level with the existing surface. Scrape edges as necessary to ensure a good riding and aesthetically pleasing repair.

All removed materials and residual repair materials will be recovered and disposed of away from the site according to the client's specifications. All Federal, State and OSHA safety requirements must be followed during installation.

Limitations/ Shelf Life

Two (2) years when stored in a dry place in original, closed packaging. Optimal storage temperature: 60 to 70 °F (15 to 20 °C).

Warranty

FPT Infrastructure warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, FPT Infrastructure makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to FPT Infrastructure Products. FPT Infrastructure's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of FPT Infrastructure Products proven to be defective, and FPT Infrastructure shall not be liable for any loss or damage.

Please refer to our website at fptinfrastructure.com for the most up-to-date Product Data Sheets.

NOTE: All FPT Infrastructure Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.