SURFACE TECH

2020 ARMI Polymer Fiber (38mm)
Data Sheet

Materials:

Aramid Fiber Reinforcement. Provide ARMI Polymer Fiber (pre-treated, Sasobit CM wax coated, aramid fiber) conforming to the requirements below. ARMI Polymer Fiber to be added to a special asphalt mix design to achieve pre-determined cracking and rutting performance of a 1" thick plant made, and paver laid asphalt interlayer. The dosage rate will vary depending on performance but in general will range from of 4.2 oz. coated weight per ton of asphalt mix to 8.4 oz. coated weight per ton of asphalt mix. Please note that ARMI Polymer Fiber contains 50% pure aramid fiber and 50% Sasobit CM wax, by weight. This pretreated, Sasobit CM wax coated aramid fiber remains in the form of a fiber strand with over 12,000 individual fibers / bundle that is easily conveyed to the asphalt mixing drum. In the mixing drum, the Sasobit wax melts allowing the aramid fibers to disperse into the asphalt mix.

Material Properties:

Material	Aramid (50% by weight)
Treatment	Sasobit CM (50% by weight)
Length	1.5" (38mm)
Form	Wax Treated & Cut Fiber Clips
Color	Yellow
Specific Gravity	1.44 g/cm3
Fiber Tensile Strength	400,000 psi
Fiber Melting Temperature	932 F
Sasobit CM Melting Temperature	170 F

Bituminous Mixing Plant:

ARMI Polymer Fiber Supply System. Add treated aramid fibers manually or through specialized equipment that can accurately proportion or meter the proper amount per batch for batch plants, or continuously and in a steady uniform manner for drum plants.

Batch Plant. When a batch plant is used, add ARMI Polymer Fibers to the RAP or aggregate in the weigh hopper if possible. Dry mix time in the PUG mill may need to be increased to ensure that the aramid fiber is uniformly distributed with the aggregate prior to the introduction of the liquid AC.

Drum Plant. When a drum plant is used, inject the treated aramid fibers through the RAP collar by feeding them through an automated or manual aramid fiber feeder. The aramid fiber feeding rate shall be controlled by plant production rate producing asphalt mix. The automated or manual aramid fiber feeder must be properly calibrated for treated aramid fiber and deliver the treated aramid fiber continuously in a steady uniform manner.

Store the ARMI Polymer Fibers 40 lb. boxes in a cool and dry environment. Tarp the pallets if left outside during production.

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