



# SURFACE TECH

## ACE Fiber Data Sheet

### Materials:

Aramid Fiber Reinforcement. Provide ACE Fiber (pre-treated aramid fibers) conforming to the requirements below. Design asphalt mix without fiber and do not alter the final mix design for the addition of fiber at the plant. Use the dosage rate of at 4.2 ounces per ton of asphalt mix. The fiber addition tolerance allowed shall be no less than 3.2 oz. and not more than 8.0 oz. per ton of asphalt mix. This dosage rate is called a Ton Equivalent (TE). Please note that ACE Fiber contains 50% actual aramid fiber and 50% actual Sasobit LM wax, by weight.

### Material Properties:

Material	Aramid (50% by weight) – Twaron by Teijin Aramid
Treatment	Sasobit LM (50% by weight)
Length	3/4"
Form	Wax Treated & Cut Fiber Clips
Color	Yellow
Specific Gravity	1.44 g/cm <sup>3</sup>
Acid/Alkali Resistance	Inert
Fiber Tensile Strength	400,000 psi
Fiber Melting Temperature	800F

### Bituminous Mixing Plant:

Fiber Supply System. Add treated 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 treated fibers to the RAP or aggregate before or in the weigh hopper. Ensure that the fiber is uniformly distributed with the asphalt and aggregate mixture.

Drum Plant. When a drum plant is used, inject treated fibers through the RAP collar by placing fibers on the RAP belt or by feeding them through a fiber feeder. Rate the feeding of fibers with the rate the plant is producing asphalt mix. If a fiber feeder is used, it must be properly calibrated for treated aramid fiber to deliver the fiber at the correct rate.

Store fibers in a dry environment out of contact with moisture.

### Recommended Unit of Measure – Line Item

Fiber Reinforced Asphalt Concrete    \_\_\_\_ Tons    \_\_\_\_ Unit Cost    \_\_\_\_ Total

Note: TE (Ton Equivalent) is equal to tonnage of asphalt that will include fiber

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