FIBER REINFORCED BITUMINOUS MEMBRANE TREATMENT

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FiberMat® Type A & B

**HISTORY**

- Developed in the UK
- Used as a SAMI and Wearing Course
- Used in traditional chip seal, decorative finishes, bridge decks, textile and grid markets
FIBERMAT® Type A & B

- Type A
  Polymer Modified Surface Treatment with fiberglass strands and select aggregate

- Type B
  Polymer Modified Stress Absorbing Membrane Interlayer (SAMI) with fiberglass strands and select aggregate.
FIBERMAT® Type A

- To bridge alligator cracking and reduce top down cracking
- To improve skid resistance
- To protect and waterproof subbase
- To improve tensile strength
FIBERMAT® Type A

AGGREGATE
BINDER
CHOPPED GLASS FIBRE
BINDER

TYPE A
FiberMat® Type B

- To add a flexible *interlayer* to absorb movements
- To improve tensile strength
- To delay reflective cracking
Fiber Membrane
Equipment

- Specialized Fiber Application Machine
- Asphalt Distributor/Tanker
- Self Propelled Chip Spreader
- Rubber Tired Roller
- Rotary Broom
Specialized Fiber Application Machine
Fiberglass Storage
Feeder Tubes
Chopper Bar
Fiberglass Shards
Emulsion Transfer
Aggregate Spreader
Process
Specifications - Type A

- Polymer Modified Asphalt Emulsion
  - 0.4 – 0.8 gal/sy

- Fiberglass
  - 2 - 3 oz/sy

- Aggregate
  - 17 – 25 lbs/sy
  - #1, #1ST or #1A
Specifications - Type B

- Polymer Modified Asphalt Emulsion
  - 0.35 – 0.45 gal/sy

- Fiberglass
  - 3 - 4 oz/sy

- Aggregate
  - 10 – 15 lbs/sy
  - #1A
Approvals

- NYSDOT – OGS SPECIFICATION
- PENN DOT – FIBERMAT TYPE B APPROVED, TYPE A PENDING
Construction sections at PTI

test track
Cores obtained

Control Section Crack all the way through
Cores obtained

FiberMat Type B Crack Underneath Interlayer
Advantages

- Easy to apply
- Opened to traffic quickly
- Waterproofing properties
- Inhibits surface cracking
- Increases tensile strength
- Completely recyclable
- Cost effective
Costs

- FiberMat can be installed “Turn Key” or with the assistance of the Agency

- Costs will vary from $1.60/sy to $2.50/sy depending on the degree of interaction from each Agency

- Size and scope of each project
QUESTIONS?