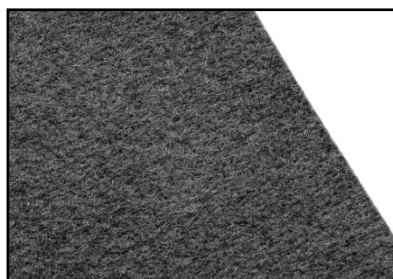




FX[®]-A/O Asphalt Overlay Fabrics

MOISTURE SEALING | STRESS RELIEF | BONDING | PAVEMENT INTERLAYER

CARTHAGE MILLS' FX-A/O SERIES OF NONWOVEN POLYPROPYLENE FABRICS



■ SERIES DESCRIPTION

Carthage Mills' FX-A/O Series of nonwoven polypropylene Asphalt Overlay fabrics are specially needle-punched and heat-set to provide an economic solution to extending the useful life of pavement overlays.

Reflective cracking – the reproduction of cracks from the original pavement through the new overlay – is the most common cause of asphalt overlay fatigue and failure. These cracks allow *surface water* to penetrate downward through the pavement, saturating and weakening the subgrade, and accelerating fatigue cracking. Specially developed and tested geotextiles have been proven to inhibit this process and extend the useful life of the asphalt overlay and pavement system.

Carthage Mills' FX-A/O Series of Asphalt Overlay fabrics, when installed on a properly prepared surface and sufficient *tack coat*, improve the performance of asphalt road surfacing and resurfacing up to 50% by reducing the "causes" of overlay fatigue failure.

■ FEATURES AND BENEFITS

Carthage Mills' FX-A/O Series of nonwoven polypropylene fabrics are specially designed for new asphalt overlays and chip seal surface treatments, and provide:

- **STRESS-RELIEVING INTERLAYER**
Inhibits the formation and continuing cycle of *reflective cracking*. Effects of freeze/thaw are also minimized.
- **IMPROVED ADHESION / BONDING**
High retention of asphalt tack coats and resistance to fabric delaminating.
- **WATERPROOFING MEMBRANE**
Engineered for maximum asphalt tack coats prevents the penetration of surface water into the subgrade.
- **CAN MORE THAN DOUBLE THE LIFE OF CHIP SEAL TREATMENTS**
High Cost/Benefit Ratio through

addition of elastic waterproofing membrane and interlayer.

■ APPLICATIONS

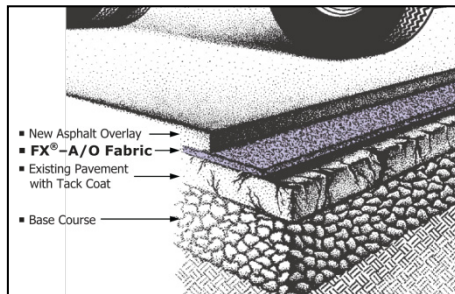
Carthage Mills' FX-A/O Series of nonwoven Asphalt Overlay fabrics are ideal for:

- HIGHWAYS AND STREETS
- Parking Lots
- AIRPORTS
- BRIDGES
- BASKETBALL COURTS
- DRIVEWAYS
- TENNIS COURTS
- CHIP SEAL APPLICATIONS

Carthage Mills' **FX-38A/O**, **FX-42A/O** and **FX-46A/O** are nonwoven geotextiles designed specifically for asphalt overlay applications. Constructed of 100% polypropylene needle punched and heat-set fibers, their ease of installation and superior performance in the field has found favor with owners and contractors alike.

[AASHTO M 288-06: Geotextile Product Selection Guide:](#)

- » FX-42A/O and FX-42A/O exceed the requirements for PAVING FABRIC.





■ FX[®]-A/O Series of Asphalt Overlay Fabrics

Carthage Mills' [FX-A/O Series](#) of nonwoven asphalt overlay fabrics are made of polypropylene staple fibers which are formed into a random network, needlepunched and heatset for dimensional stability. The Carthage [FX-A/O Series](#) of nonwoven asphalt overlay fabrics delivers high durability, high asphalt retention, is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

| PROPERTY | TEST METHOD | UNIT | FX [®] -38A/O | FX [®] -42A/O | FX [®] -46A/O |
|--|-----------------------|--|------------------------------|------------------------|------------------------|
| □ Mechanical | | | | | |
| Grab Tensile Strength | ASTM D 4632 | lbs (kN) | 90 (0.40) | 101 (0.45) | 120 (0.53) |
| Grab Tensile Elongation | | % | 50% | | |
| □ Asphalt Retention and Melting Point | | | | | |
| Asphalt Retention | ASTM D 6140 | gal/yd ² (l/m ²) | 0.20 (0.91) | 0.20 (0.91) | 0.22 (1.00) |
| Melting Point | ASTM D 276 | °F (°C) | >300 (>149) | | |
| □ Physical | | | | | |
| Mass Per Unit Area (Typical) | ASTM D 5261 | oz/yd ² (g/m ²) | 3.5 (119) | 4.1 (140) | 4.6 (156) |
| Standard Roll Sizes (Packaging / Area) | Measured (Typical) | ft (m) | 10.5 x 360 (3.2 x 109.7) | | |
| | | yd ² (m ²) | 420 (351) | | |
| | | ft (m) | 12.5 x 360 (3.81 x 109.7) | | |
| | | yd ² (m ²) | 500 (418) | | |

NOTES: Mullen Burst Strength ASTM D 3786 is no longer recognized by ASTM D35 on Geosynthetics.

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
- The properties reported above are effective 01-01-18 and are subject to change without notice.

» [AASHTO M 288-15: Geotextile Product Selection Guide](#)

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