TRUPAVE™ MAT PERFORMANCE THROUGH PROTECTION

TruPave™ engineered paving mat from Owens Corning provides high-modulus tensile strength while creating a moisture-resistant barrier to reduce the effects of reflective cracking and dramatically increase the life of the pavement.

- Provides excellent anti-cracking performance in high-temperature, hot-mix applications.
- Extends performance of pavement rehab investment by up to 500 percent.
- Reduces long-term maintenance and repaving costs.
- Installs quickly and easily — pave over immediately or leave open to traffic.
- Millable and cold-in-place process compatible at the end of the pavement's life.

FOR HOT-MIX ASPHALT SURFACE APPLICATIONS

Product Benefits

Impressive Performance

- Prevents reflective cracking and protects the pavement structure longer with low elongation, high-modulus glass fibers.
- Resists moisture damage by combining with asphalt to form a low-permeability moisture barrier.
- High tensile strength improves flexural pavement performance under loading.
- Remains stable under high-temperature, hot-mix designs and will not shrink or melt — glass and polyester fibers are dimensionally stable up to 495°F.

Reduces Costs

- Preserves pavement surface and protects structure longer for less maintenance and lower costs.
- Extends performance of pavement rehab investment by up to 500 percent.

Recyclable

- Easily milled into small pieces and fully recycles into asphalt mixes through a hot-mix recycling plant.
- Promotes sustainability and lowers impact of producing, processing, and transporting raw materials by conserving natural resources, limiting use of landfills, and reducing greenhouse emissions.

Applications

TruPave™ engineered paving mat is used for hot-mix overlay applications over existing asphalt and/or concrete pavement or between layers in new construction. The product is ideal for highways, urban streets, parking lots, bridge decks, shopping centers, runways, or driveways. Projects can include spot crack repair, micro surfacing, chip seal, mill/leveling course/structural overlay, and non-structural overlay.

Technical Characteristics

PROPERTY	TEST METHOD	UNITS	TYPICAL VALUE
Mass Per Unit Area	ASTM D5261	g/m^2 (oz/yd^2)	136 (4.0)
Tensile Strength, MD	ASTM D5035*	N/50mm (lb/2in)	>200 (45)
Elongation at Max Load, MD	ASTM D5035*	%	<5
Tensile Strength, CD	ASTM D5035*	N/50mm (lb/2in)	>200 (45)
Elongation at Max Load, CD	ASTM D5035*	%	<5
Tensile Strength (bias angle)[1]	ASTM D5035[2]	N/50mm (lb/2in)	>200 (45)
Melting Point	ASTM D276	°C (°F)	>230 (>446)
Asphalt Retention	ASTM D6140	gal/yd^2	0.21
Shrinkage	Tex-616-J	%	0

*ASTM D5053 is designed for materials that exhibit <11% elongation (ASTM D5035. Section 1.2).
1 In paving applications, bias angle tensile strength can be a factor in mitigating multi-directional crack propagation.
2 Modified test sample is cut on a 45° angle and tested according to ASTM D5035.

NOTE: Conditions for tensile strength measurements: Sample width: 50mm; Sample length: 250mm; Gage length: 175mm; Crosshead speed: 50mm/min

NOTE: Of the various ASTM test methods for testing tensile strength of paving mats, paving fabrics, and glass grids, none are fully suitable for comparing materials that are dissimilar in construction and materials. For example, under ASTM D4632, it is stated that "the grab test method does not provide all the information needed for all design applications, and other test methods should be used." Owens Corning utilizes ASTM D5035-95, also known as the cut-strip tensile test method, because TruPave exhibits less than 11% elongation. Unlike the grab method (ASTM D4632), with the cut-strip method, the entire width of the test specimen is clamped and falls within the stress field as the specimen is elongated. Neither method fully addresses performance in the pavement, and Owens Corning recommends that mats, fabrics, and grids be tested when embedded in asphalt.

Manufacturing Process

TruPave™ engineered paving mat is manufactured using a wet-formed process, comprised of fiberglass and polyester fibers blended in an aqueous latex resin. This unique manufacturing process ensures that the fibers uniformly disperse and form a strong interlocking mat that will deliver tensile strength in all directions.

Availability & Packaging

TruPave™ mat is available in North America.

TruPave™ mat is packaged on rolls in three different widths in the following sizes:

- 12' 6" x 360' (500 sq yd)
- 10' 0" x 360' (400 sq yd)
- 6' 3" x 360' (250 sq yd)

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