

Installation Procedures for GlasPave® Paving Mat

A Hybrid Geosynthetic Waterproofing Paving Mat

The GlasPave® Waterproofing Paving Mat is an unique combination of fiberglass mesh embedded between two high performance polyester mats. GlasPave delivers the highest performance for the given tensile strengths (25 kN or 50 kN) in the market compared to any other paving interlayer. The distinctive design is optimized for easy installation and to achieve maximum performance.



Image 1: Interlayer laydown equipment.



Image 2: Distributor truck with fabric applicator attached to the back.

INSTALLATION STEPS

1. The GlasPave Paving Mat should be stored indoors and protected from the water and the environment.
2. GlasPave can be installed on an existing, milled or new bound pavement surface.
3. Surfaces must be free from dirt and loose stone prior to spraying a tack coat and installing the GlasPave Paving Mat.
4. Crack with widths greater than ¼ in. (6 mm) must be filled with an approved crack sealant and all potholes must be repaired.
5. If installing GlasPave on a milled surface, the texture depth (distance between the top of ridges and trough) should not be greater than ½ in. (12.5 mm). If texture depths exceed ½ in. (12.5 mm) please consult a manufacturer's representative.
6. On concrete pavement surfaces, a level course is recommended prior to the placement of GlasPave.
7. The tack coat must be applied uniformly and provide full coverage. Apply tack the full width of the GlasPave material plus 2 - 4 in. (50 - 100 mm) to ensure full coverage
8. Use a hot applied tack coat. PG 64 (-10 to -34) is recommended. When ambient temperatures are above 90°, PG 70 (-10 to -34) is recommended.
9. The recommended application rates are:
 - a. New asphalt: 0.15 gal/yd² (0.70 L/m²)
 - b. Existing asphalt surface: 0.17 gal/yd² (0.80 L/m²)
 - c. Milled surfaces: 0.18 gal/yd² (0.90 L/m²)
10. Surface and ambient temperatures during installation shall be 50° F (10° C) and rising, to allow adequate liquid tack to hold the GlasPave in place.
11. GlasPave can be applied by interlayer laydown equipment (see image 1) or a distributor truck with a fabric applicator attached to the back (see image 2).

12. All adjacent GlasPave material should be overlapped (see image 3).
 - a. Longitudinal (direction of traffic): 1 in. to 2 in. (25 mm to 50 mm)
 - b. Transverse (90° to traffic): 2 in. to 4 in. (50 mm to 100 mm)
13. All overlaps shall be shingled in the direction of the paving.
14. When installing a GlasPave mat that will be overlaid with HMA, pneumatic tire rolling is recommended when adhesion into the hot PG asphalt tack cannot be achieved due to wind, surface texture, wrinkles or cooler temperatures (see image 4). When installing a GlasPave mat that will be overlaid with a geosynthetic Reinforced Chip Seal (GRCS) system, pneumatic tire rolling is required to embed and bond the mat into the hot PG asphalt tack.
15. Any wrinkles greater than 1 in. (25 mm) should be slit and lapped in the direction of paving (see image 5).
16. If any tack coat bleeds through the GlasPave or is left exposed, then small quantities of loose asphalt mix can be spread on the areas that are bleeding.
17. The asphalt overlay or chip seal should be installed the same day as the GlasPave.
18. All paving machine types can run on the installed GlasPave (see image 6). However, all turns by pavers, rollers, or asphalt delivery trucks should be made gradually.
19. Non-construction traffic should be kept off the GlasPave unless approved by the engineer and the manufacturer's representative.



Image 4: A pneumatic tire roller is recommended to bond the GlasPave mat to the tack coat in certain scenarios.



Image 5: Wrinkles after rolling that are 1 in. or greater should be slit and shingled in the direction of paving.



Image 3: All adjacent GlasPave should be overlapped.



Image 6: All paving machine types can run on GlasPave.

Tensar®

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