



INNOVATIONS FOR LIVING™

TRUPAVE® ENGINEERED PAVING MAT INSTALLATION GUIDELINES – HOT MIX ASPHALT CONCRETE



Installation Guidelines for TruPave® Engineered Paving Mat under Hot Mix Asphalt Concrete (HMAC)

Surface Preparation

- Power broom, sweep or vacuum the pavement before installing *TruPave*. The pavement surface should be dry, free of dirt and loose stones prior to installation.
- Fill all cracks 1/4" (.63cm) or greater with an approved material.
- Repair failed pavement areas prior to installing *TruPave*.

NOTE: A scratch or leveling course may be used if deemed necessary by the engineer.

Asphalt Tack

- **Always** use neat or polymerized asphalt tack. Emulsions or cutbacks are not recommended.
- Tack temperature in the truck should be between 325-400°F (163-204°C).

NOTE: Heating the tack coat above 400°F (204°C) in the truck will cause premature aging of the asphalt.

- AC-20, PG64-22, PG70, AR8000, 60-80 penetration grade or polymerized PG70 graded asphalt should be used. For high temperature installations, high viscosity asphalt tack should be used. These include, but are not limited to; AC-30, PG67-22, AR8000, 40-60 penetration grade or polymerized PG70 graded asphalt.

NOTE: Residue grades such as AR grades do not specify initial viscosity. Since the asphalt used in this application does not go through a hot-mix plant, use of these grades does not insure proper viscosity of the asphalt. Bituminous materials specified for *TruPave* installation should have initial or un-aged viscosity corresponding to the above grades.

- Tack application rate is 0.20 g/sy, (.90 l/m²), but this may be adjusted slightly to take into account the condition of the existing surface.
- The width of the asphalt tack shall be the mat width, plus a minimum of 4" (10.16cm) longitudinally on the overlap side(s).

Installation Best Practices

- *TruPave* may be installed by unrolling in a clockwise or counter clockwise direction.
 - Any wrinkle that occurs during installation, 1" (2.54cm) and larger, shall be slit and lapped in the direction of paving and pressed down into the tack coat.
- NOTE:* Burning or torching of *TruPave* to remove wrinkles should never be done.
- To ease installations around curves, *TruPave* can be placed in shortened lengths by mechanical equipment or by hand.
 - *TruPave* should never be installed when wet or on wet pavement.
 - Turning of the paving equipment, trucks or other vehicles on *TruPave* should be gradual and shall be kept to a minimum to avoid damage to the mat.

- To alleviate the pickup of *TruPave* on vehicle tires, caused by the exposure to high ambient temperatures or overspray of tack causing bleed-through, clean blotting sand or HMAC may be required to be spread over the affected area. Excess blotting sand and/or HMAC shall be removed before the installation of the wearing course.
- After the installing *TruPave*, the pavement may be opened to traffic at the contractors/engineers discretion.
- *TruPave* can be installed using a tractor, truck-mounted frame or by hand. Brooms should be used to seat the *TruPave* into the tack and remove air bubbles.
- An overlap minimum of 2" (5.08cm) longitudinally and 4" (10.16cm) transversely shall be used. Transverse overlaps should run in the direction of the paving operation, and all overlaps tacked together.

General Construction Notes

- Minimum HMAC overlay thickness should be in accordance with the Asphalt Institute (AI) guidelines.
NOTE: Minimum lift thickness should be at least 3 times the nominal maximum aggregate size to ensure aggregate can align themselves during compaction to achieve required density and also to ensure mix is impermeable .
- Take care in unloading *TruPave*. The rolls can be damaged if dropped.
- *TruPave* should be protected from getting wet during storage and transportation.
- When possible, do not allow vehicles to park on *TruPave* for extended periods of time. This could cause damage to the mat.

Owens Corning cautions that as the Asphalt Institute's recommendations evolve and so may the corresponding recommendation. The statements in this letter only apply to the Asphalt Institute's recommendation in effect as of December 1, 2004.

Questions concerning installation issues should be directed to:

1-800-GET PINK

Or visit our website at <http://www.owenscorning.com/trupave>



INNOVATIONS FOR LIVING™

OWENS CORNING WORLD HEADQUARTERS
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO, USA 43659

1-800-GET-PINK
www.owenscorning.com/trupave

Pub. No. 61154-B. Printed in U.S.A. December 2005.
THE PINK PANTHER™ & © 1964-2005 Metro-Goldwyn-Mayer Studios Inc. All Rights Reserved. The color PINK is a registered trademark of Owens Corning. ©2005 Owens Corning.