JOINTBOND® asphalt joint stabilizer

The longitudinal joints in asphalt pavements are a common failure point. When improperly maintained, they can reduce pavement longevity by as much as 40 percent. JOINTBOND® asphalt joint stabilizer protects longitudinal joints and surrounding areas by deeply penetrating the pavement and stabilizing the critical joints and adjacent areas. It is primarily for use on asphalt pavements less than one year old.

Markets
- DOTs
- Urban/Suburban Municipalities, Counties
- Highway Shoulders

Compatible Substrates
- For asphalt pavements less than one year old.

Benefits
- Helps prevent cracking and separating of critical joints
- Penetrates deeply and quickly to protect against air, water and salt brine
- Will not obliterate striping and other markings
- Field tested and proven technology
- Leaves no surface residue

How It Works
JOINTBOND longitudinal joint stabilizer was developed to inhibit the premature deterioration of construction joints by penetrating the asphalt pavement and combining with the existing asphalt binder.

As a polymerized maltene-based emulsion, JOINTBOND stabilizer extends the service life of longitudinal joints and adjacent areas in two ways:
- Improving the chemistry of the in-place asphalt binder
- Adding a physical in-depth seal to the construction joint, thereby sealing the joint and surrounding area against intrusion by air, water and salt brine

How to Apply

Temperature
Apply only when ambient temperature is expected to remain at or above 40°F for 12 hours.

Surface Preparation
Surface must be dry with no threat of rain within 4 hours of application.

Field testing shall be performed prior to application to determine the maximum amount of material that the pavement can absorb within a 20 minute period.

Contractor shall apply various test strips ranging in length from 100-150 ft. using different rates, noting the time it takes for total absorption to occur without surface residues remaining.

Application Method/Rate
JOINTBOND stabilizer must be applied by an approved applicator using a computerized distributor truck cleaned of all other materials to prevent contamination. Its recommended application rate is between 0.06 and 0.15 gallons per square yard (GYS).

JOINTBOND stabilizer shall be applied such that a uniform distribution is obtained along the longitudinal construction joint and an area from 1 to 1.5 feet on both sides of the joint.

Multiple applications may be needed on grades or super elevations prone to excessive runoff. Succeeding applications shall be made as soon as penetration of the preceding application is complete.

If significant residue remains due to misapplication or spills, a light coating of sand may be spread on the surface prior to opening the road to traffic.

Other Considerations
Treated sections must be closed and free from traffic until JOINTBOND treatment is complete. Traffic control shall be conducted in compliance with all local, state and federal requirements.

Limited Warranty
Pavement Technology, Inc. (PTI) warrants its products to be of the highest quality. Refund of purchase price or replacement of product shall constitute the limit of PTI’s liability. PTI makes no other warranties, express or implied, with respect to the products or any service and disclaims all other warranties, including any warranty of merchantability and fitness for particular purpose. This limited warranty may not be modified by reps of PTI, its distributors or dealers.
The performance of JOINTBOND® asphalt joint stabilizer has been field tested by government agencies to verify its effectiveness in changing the viscosity values of the asphalt binder. The above test results were taken from the top 3/8" and the 3/8" to 3/4" layers of each core specimen removed separately. The asphalt binder was extracted and recovered from both layers separately by California Test Method 365. Viscosities, pascals (Pa), phase angles, and complex, elastic, and viscous moduli were determined on the recovered asphalt binder using the Dynamic Shear Rheometer as prescribed in ASHTO T316. The results cited above demonstrate that JOINTBOND® stabilizer has effectively combined with the asphalt binder to produce a more durable and longer lasting construction joint area.

### Safety Guidelines
Contractors shall follow all stipulated application requirements.

### Manufacturer
D&D Emulsions, Inc., Mansfield, OH

### National Distributor
Pavement Technology, Inc., Westlake, OH