

J-Band

Void Reducing Asphalt Membrane

Product: J-Band

Description: J-Band is a hot applied asphalt membrane used to extend the life of longitudinal HMA joints. J-Band is resistant to flow and non-tracking to construction traffic within 30 minutes of application under the intended construction joint. J-Band migrates 50-75% into the HMA void structure after rolling, thus reducing permeability at the joint. The reduction in permeability minimizes water and air intrusion into the joint resulting in reduced cracking and stripping and improved pavement performance.

Application: J-Band is applied using a specialized distributor with a parallel spray bar attachment. Application rates vary depending on the existing pavement type and thickness of the HMA overlay.

Physical Properties:
Appearance: Black
Physical State: Viscous liquid at elevated temperatures
Spec. Gravity: 1.09
Boiling Point: >750°F

Storage & Handling: J-Band should be stored in a heated tank with mixing capabilities at a temperature range of 285°F to 325°F. Storage life is up to 30 days, depending on temperatures. Specialized transport tankers may be required, depending on distances and storage times.

Specification :

TEST	TEST REQUIREMENT	TEST METHOD
Dynamic shear @ 82°C (unaged), $G^*/\sin \delta$, kPa	1.00 min.	AASHTO T 315
Creep stiffness @ -18°C (unaged), Stiffness (S), MPa m-value	300 max. 0.300 min	AASHTO T 313
Ash, %	6.0 max.	AASHTO T 111
Elastic Recovery, 100 mm elong, cut immediately, 25°C, %	58 min.	AASHTO T 53
Separation of Polymer, Difference of R&B S.P., °C	3 max.	ASTM D7173

TEST ON COMPOSITE SPECIMEN OF LAB COMPACTED MIXTURE	
Migration, % of overlay thickness ⁽¹⁾	50-75%

Note 1: The migration may be checked in the lab using the method for comparing composite specimen by means of a gyratory compactor. The migration may be checked in the field from cores taken from the pavement.

