

# Time for a stronger centerline

Your pavement represents a major investment. So when you're looking for a product to make your investment last longer, you don't just need something *new*. You need something *new... that's proven to work*.

After extensive testing, J-Band® is the innovation that solves the age-old problem of longitudinal joint deterioration.

That's because taking a proactive approach to strengthening the centerline can have a major positive impact – saving your agency, crews, and community what counts: time, money, and lives.



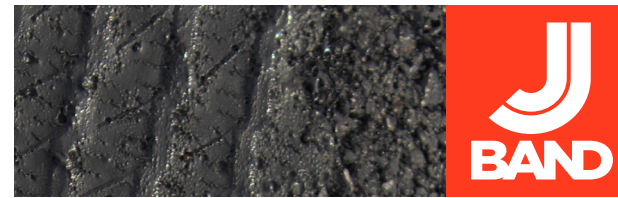
## Elevating pavement performance in Champaign County, IL

IDOT recently completed a 12-mile pavement rehabilitation project on Interstate Route 57 on the west side of Champaign, IL. The project included an application of 18" wide longitudinal joint sealant (LJS) between the HMA binder and surface courses using J-Band.

Open Road Paving Company, LLC was the prime contractor for the project, and Illiana Construction Company applied the J-Band material supplied by Asphalt Materials, Inc. using a distributor capable of heating the material to over 300°F and providing continuous agitation in the tank.

The two-phase project was constructed in the summer/fall 2017, with J-Band applied in June and September. The applicator provided an extremely straight band of material using a laser guide to apply more than 19,000 gallons of J-Band on 23 centerline miles. An excellent paving operation was performed by centering and properly compacting the HMA joint over the middle of the J-Band.

This resulted in an initial migration of the J-Band at least half way up into the HMA surface and created a strong "shadow" that was visible in the new HMA mat, protecting this heavily traveled roadway for years to come.



**J**  
**BAND**

“ LJS makes the joint area bullet proof and eliminates future maintenance concerns.”

– **Engineer, Illinois Dept. of Transportation**

“ Upon completion of the necessary road preparation and required material protocols, the product goes down smooth, thick, and quick, setting up within minutes allowing for immediate road accessibility for traffic and project continuation. ”

– **Applicator, Illiana Construction**

“ LJS changes the joint area from being the first thing to become a problem, to being the last.”

– **Engineer, Illinois Dept. of Transportation**

“ The LJS shadow shines through the final HMA surface indicating heavy joint reinforcement and positive results of the product.”

– **Prime Contractor, Open Road Paving**

Raise the bar on the road ahead at  
[www.TheJointSolution.com](http://www.TheJointSolution.com)

J-Band is a product of Asphalt Materials Inc.  
created in the labs of Heritage Research Group.  
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## The Bottom-Up Joint Solution



**J**  
**BAND**



# Performance from the bottom-up

J-Band® significantly reduces air voids in longitudinal joints from the bottom up – literally.

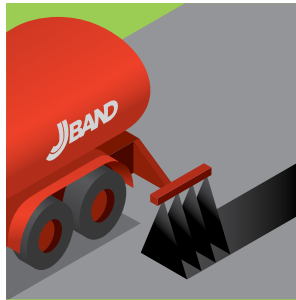
J-Band is applied under the longitudinal joint in new asphalt and migrates upward as the hot mix is installed on top of it.

J-Band not only extends the life of the joint, but it improves performance of the entire pavement as it:

- Stabilizes the unconfined edge.
- Dramatically reduces air voids.
- Nearly eliminates permeability.
- Significantly extends the life of the joint.

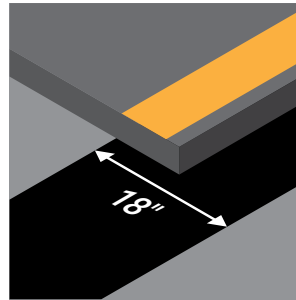


## The winning formula



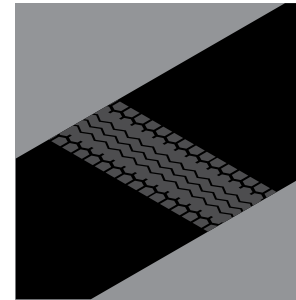
### Efficient Application

Even though it's a new way of doing things, J-Band is applied immediately prior to paving, as part of the normal HMA construction process.



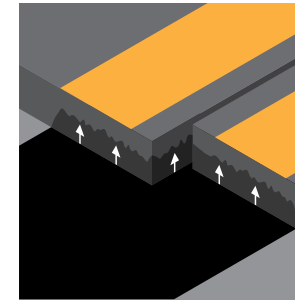
### Wide Coverage

Using an inline parallel spray bar, J-Band covers an area 12 or 18 inches wide on top of existing pavement under the eventual location of the longitudinal joint.



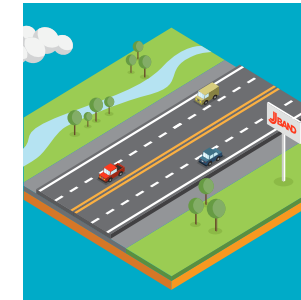
### Fast Acting

In no more than 30 minutes after applying J-Band, the road is ready for construction traffic, keeping the installation process efficient and traffic flowing.



### Upward Moving

Unlike other joint treatments, J-Band migrates upward, filling voids and fending off the joint's enemies: air and water.



### Long Lasting

J-Band is proven to extend the life of your pavement's longitudinal joint three-fold, from the usual 4-5 years without J-Band – to 15+ years with J-Band.



### Money Saving

J-Band is a long-term proposition. On the average roadway, every \$1 invested in J-Band typically saves agencies \$2 in avoided and deferred maintenance costs.



## Proof already in the pavement

In 2002, the Illinois Department of Transportation (IDOT) recognized it was time to do something about joint performance and worked with Asphalt Materials Inc. industry experts and the leading-edge laboratories at Heritage Research Group to place test sections of J-Band along U.S. Highway 51.

More than 15 years after that initial placement, the sections where J-Band was applied still show significantly less wear and tear.

J-Band has also been installed on urban and rural roads in Ohio, Indiana, Michigan, Iowa, and Missouri.