

# Pavement Technology, Inc.



# Our Core Products

**Reclamite<sup>®</sup>** - Maltene Based Asphalt Rejuvenator

**JOINTBOND<sup>®</sup>** - Longitudinal Joint Stabilizer

**CRF<sup>®</sup>** - Restorative Seal and Crack Filler

**Cyclogen<sup>®</sup>** - Asphalt Cement Recycling Agent

**SURFCRETE<sup>®</sup>** - Concrete Resurfacer

**Coherex<sup>®</sup>** - Dust Control Agent

# Reclamite®

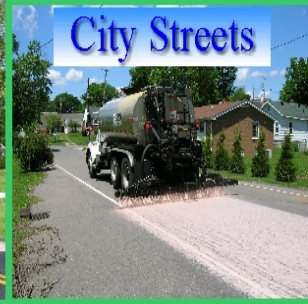
Maltene Based Asphalt Rejuvenator

## Reclamite®

County Roads

City Streets

Shoulders



Since 1972 Reclamite® has been proven to extend pavement life on Rural Roads, City Streets, and Highway Shoulders thereby lowering agencies resurfacing and maintenance costs.

RECLAMITE QUICKLY BEGINS PENETRATING INTO THE PAVEMENT



STREETS ARE CLEANED THEN RECLAMITE IS SPRAY APPLIED



WITHIN 20-25 MINUTES THE RECLAMITE HAS PENETRATED



A LIGHT DUSTING OF SAND OR SLAG IS APPLIED



THE SAND IS SWEEPED AND REMOVED THE FOLLOWING DAY



THE RECLAMITE IS IN THE PAVEMENT, HAS REJUVENATED THE ASPHALT CEMENT AND CAN'T BE WORN AWAY



# Reclamite®

Maltene Based Asphalt Rejuvenator

## Reclamite Test Section Spring Hill Circle

**After  
10 Years**

**Treated**

**Not Treated**

**Reclamite Applied 1997  
Picture Taken 2007**



# Reclamite®

Maltene Based Asphalt Rejuvenator

Extending Pavement Life on Interstates and Expressways



**Surface Abrasion**



**Skid Testing Before & After**



**Reclamite Application**



**Core Testing Before & After**

## CORE TESTS RESULTS

Pavement core samples were taken and tested by Tri Mat Materials Testing two weeks before and after the Reclamite was applied.

The asphalt binder's Viscosity had an average improvement of 40.25% at 4 of the 5 locations.

Table 1 - Core Results for Pre and Post Treatment

Test	Sample Number and Location				
	3374 MM 418 W	3375 MM 418E	3376 MM 411 In	3377 MM 411 Out	3378 MM 409
<i>Pre-Treatment</i>					
Complex Modulus, 60C, G* (kPa)	230.0	209.0	283.0	294.0	257.0
Viscosity, 60C, (Pa-s)	230000	209000	283000	294000	257000
Phase Angle, 60C (degrees)	60.6	60.8	58.3	59.9	59.6
<i>Post-Treatment</i>					
Complex Modulus, 60C, G* (kPa)	227.0	125.0	160.0	174.0	174.0
Viscosity, 60C, (Pa-s)	227000	125000	160000	174000	174000
Phase Angle, 60C (degrees)	57.6	57.5	59.7	58.3	58.3
Percent Reduction	1%	40%	43%	41%	41%

- Extraction and recovery testing performed as per ASTM D1858 and
- Asphalt binder viscosity tested per AASHTO Test Method T315.

Reclamite improves AC Viscosity.

Surface Abrasion increases Skid Numbers.

# PROVEN RESULTS

## Skid Numbers Before & After



Average Skid Test Before:

**39.34**

Average Skid 30 Minutes After Skidabrader/Reclamite Process:

**47.33**

Average Skid 24 Hours After Skidabrader/Reclamite Process:

**51.7**

Average Skid 48 Hours After Skidabrader/Reclamite Process:

**54.6**

Testing summary

Location	Lane	Direction	Test	Average SNR40
140 MP 417.73 to 418.37	Right	East	Before	36.27
			After abrasion	79.34
			After spray	46.88
			After 24 hrs	51.94
			After 48 hours	49.77
MP 417.73 to 418.37	Left	East	Before	40.98
			After abrasion	74.58
			After spray	49.10
			After 24 hrs	50.75
			After 48 hours	61.02
MP 418.37 to 417.73	Right	West	Before	41.10
			After abrasion	67.8
			After spray	44.50
			After 24 hrs	52.43
			After 48 hours	50.63
MP 418.37 to 417.73	Left	West	Before	39.02
			After abrasion	73.66
			After spray	48.86
			After 24 hrs	57.01
			After 48 hours	57.01

# JOINTBOND® - Longitudinal Joint Stabilizer



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## STRIPING REMAINS VISIBLE



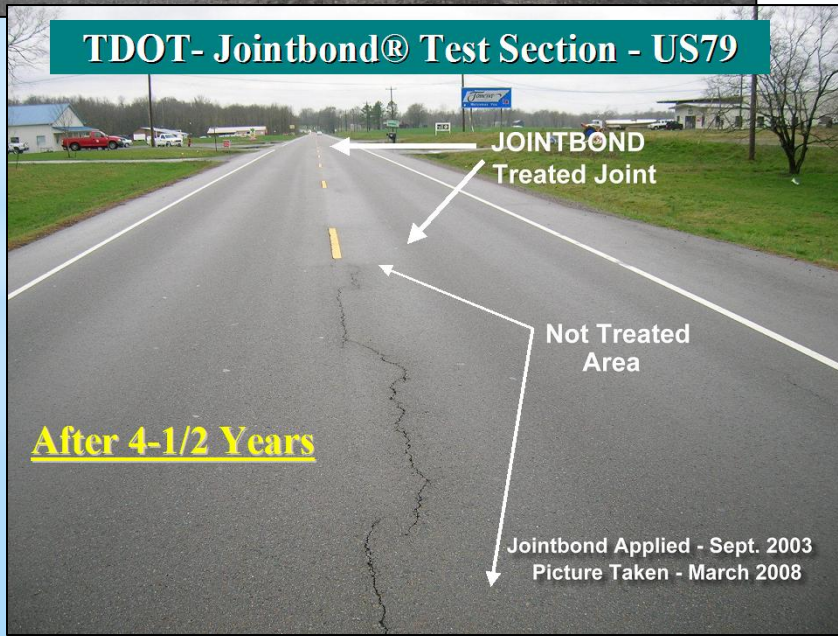
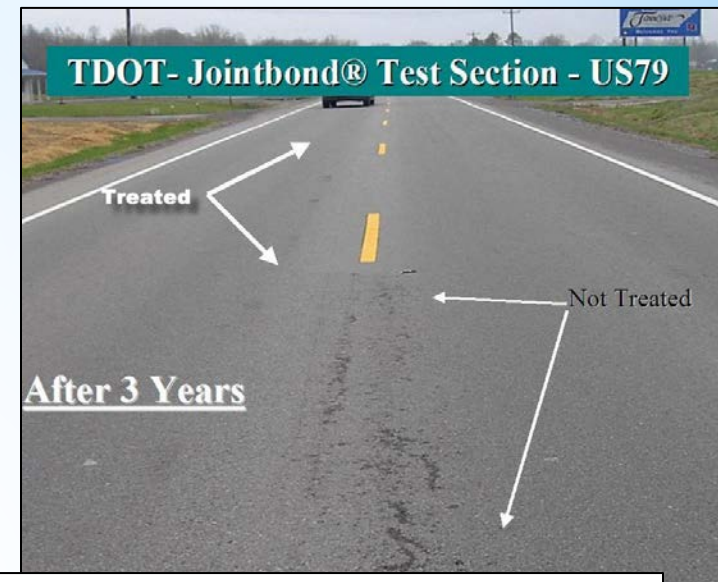
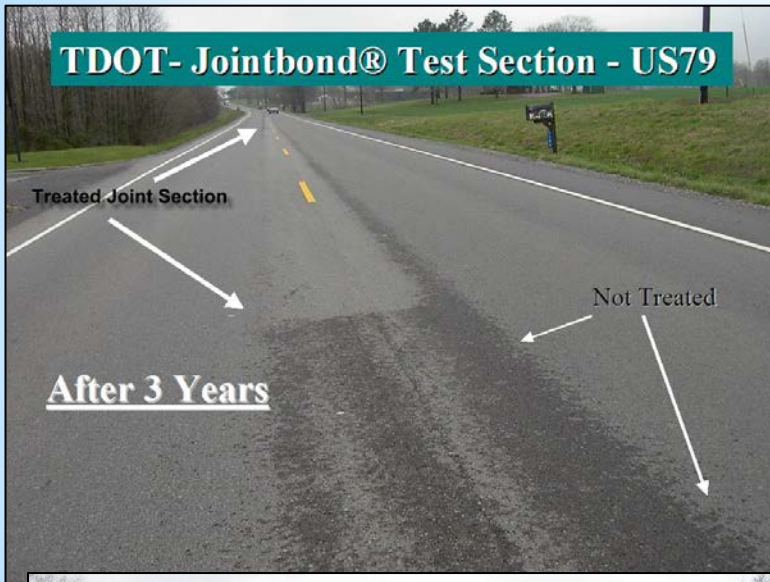
## Reflectivity Remains

## - Even in the RAIN





# JOINTBOND® - Proven Results



Test Results on Recovered Binder-JOINTBOND Treated  
City of Nashville, TN – Centennial Blvd.

Core Sample	Viscosity@60 °C, Poises	Phase Angle, °	M O D U L U S, Pa		
			Complex	Elastic	Viscous
Core # 3: Treated Core B top 3/8"	5441	85.5	5456	432	5438
Core # 3A: Treated Core B 3/8- 3/4" layer	7028	84.4	7047	685	7013
Core # 4: Untreated Core B top 3/8"	8258	84.0	8279	869	8234
Core # 4A: Untreated Core B 3/8 -3/4" layer	8251	84.2	8292	833	8250
Core # 5: JOINTBOND Treated Core C	4036	85.2	4047	336	4033
Core # 6: Untreated Core C	8108	83.2	8129	965	8071

**Summary of Results:**

All cores tested to 3/8" indicated the product had penetrated to the 3/8" depth where it improved both the viscosity and elasticity modulus of the cores from the treated pavement.

Core #3A was also tested to a 3/4" depth and indicated the product had also penetrated to the 3/4" depth and provided similar improvements to viscosity and elasticity modulus in the core from the treated pavement.

# Pavement Technology, Inc.

[www.pavetechinc.com](http://www.pavetechinc.com)

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