

A Cygnus Publication

PAVEMENT®

Serving contractors who work on pavement



*Distributor
Directory
Inside*



May 1999

Volume 14/Number 4

- Chip sealing with the 'Bird's Eye' stone
- Traffic control for contractors
- Striping running tracks
- Pavement marking research update



Features

- 8 Your Business Matters**
How to turn a golf outing tax bogie into a tax birdie.
- 10 Perspective On Pavements**
Laser technology may revolutionize striping performance measurements.
- 18 Traffic Control & Worksite Safety**
ATSSA speaker tells contractors to improve work zone safety.
- 26 Contractors' Choice**
EZ-Slope gauge eases slope construction on subgrade and HMA base courses.
- 30 Traffic Control For Contractors**
Alternate Construction Controls Inc. offers tips for safer work zones.
- 36 The Contractor's Responsibility**
If you can't run a safe work zone, you shouldn't be on the job.
- 44 Striping An Import/Export Dock**
Vehicle import/export dock calls for precision stenciling and striping.
- 50 Striping The Fast Lanes**
Creative Striping makes running track striping look easy.
- 54 Chipseal With "Bird's Eye"**
Chipsealing job uses smaller, precoated stone for city streets.
- 58 Sweeping For Safety**
Using truck-mounted brooms to sweep Michigan Speedway.
- 60 1999 Distributor Directory**
Find needed equipment and materials the easy way.
- 103 Fabrics On A Roll**
Best fabric installation requires proper storage and attention to core problems.
- 106 Expanding Your Niche**
Heat lances — A simple tool to dry and clean cracks.

Cover: Kyle Seidler, Ben's Asphalt & Seal Coating, Santa Ana, CA, uses the Sure Stripe 6000 airless pavement marking machine to stripe parking stalls at this California mall. Photo courtesy Airlessco by Duratech Co., Moorpark, CA.

PAVEMENT

Serving contractors who work on pavement

Departments

- 3 Editorial**
- 4 Hot Mix**
- 110 Industry Update**
- 112 Hot Spots**
- 113 Pavement Maintenance Trader**
- 118 Advertiser Index**
- 119 How's Business?**
- 120 New Products**
- 121 Roundtable**
- 121 Calendar**
- 122 Tailgate Talk**

Advisory Board

- | | |
|-------------------------|--|
| Larry Benish, | Valley Sealcoat, Appleton, WI |
| Wally Bolger, | Country Asphalt Maintenance & Sweeping, Everett, WA |
| Alan Curtis, | CHEC Consultants, Redding, CA |
| Randy DeVries, | Site Services Inc., Highland, IN |
| Tom Doxey, | Doxey Paving & Maintenance Contractors, Colorado Springs, CO |
| Debbie Jacketta, | Jacketta Sweeping, Salt Lake City, UT |
| Michael Nawa, | Industrial Grounds Maintenance, Reading, PA |
| Lee Norman, | Georgia Blacktop Paving Inc., Ellenwood, GA |
| Brad Poer, | Sunline Markings, Phoenix, AZ |
| Don Rooney, | Pioneer Paving, Albuquerque, NM |
| Alan J. Rose, | Rose Paving & Sealcoating, South Holland, IL |

Fabrics on a roll

Best fabric installation requires proper core storage and attention to core problems

By Mounque Barazone

Storing of fabric rolls and handling of those rolls can affect fabric placement and also how well the fabric performs over the long term.

Improper fabric storage, for example, can cause numerous problems from moisture and ultraviolet rays.

Damage to the plastic wrappers that protect the rolls during storage and transport allows moisture and the sun's UV rays to reach the fabric, breaking down the fibers in just a few weeks. And when the fabric gets wet, it creates steam during hot mix laydown, which will cause stripping of the asphalt from the fabric due to a poor bond.



Poor storage results in wet cores, which creates installation problems.

Another problem that often results from poor storage is wet cardboard cores, which create two installation problems.

First, the cores become weak and break. Second, the wet ends of the cores shred and tear up with mechanized equipment using cones that grab the cores.

Often the whole roll can be installed before losing the tensioning capability, allowing the roll to spin freely. This causes excessive wrinkles and

increased labor.

Planning around cardboard cores

Since there are many different manufacturers of fabric, the contractor needs to check more than just if the fabric meets the specifications.

Each manufacturer might use different diameter cardboard cores, from 3 in. to 6 in., to roll the fabric on. Equipment cones on fabric laydown machines should be checked to make sure that the diameter of the core will fit on the cones of the contractor's equipment. Not all cones fit all cores.

Thickness of the cardboard cores also is important. Some manufacturers have learned to use thicker cores, 3/4 in. to 1 in., to insure core strength so that the core will not break during installation.

Some manufacturers still use thin drainage fabric cores which



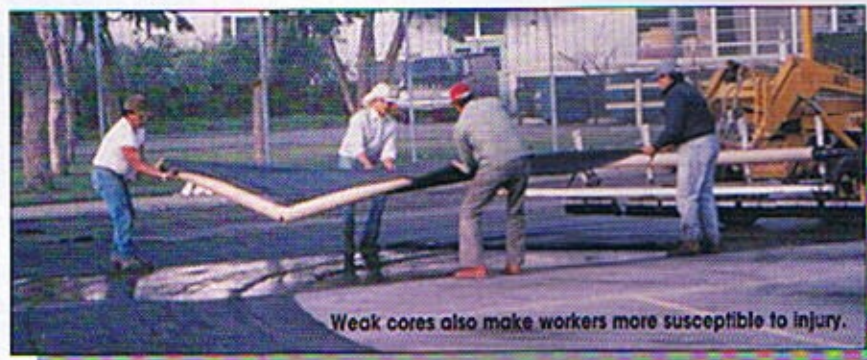
Fabric on cores that are too light cause rolls to sag in the middle, creating installation problems.

are not suitable for installation by equipment. Often the weight of the fabric on these thinner cores can cause the roll to sag in the middle during installation, causing wrinkles.

The thin core might break, possibly causing an accident if it jumps off the machine. It also can create the potential for injury as the workers must pull the fabric to remove the roll from the oil that is already down and the fabric has stuck to.

Fixing core problems

The simplest way to fix core problems should they occur is to obtain an aluminum (much lighter) or steel pipe slightly smaller than the diameter of the fabric core and about six inches shorter than the fabric width to allow the cones to grab the core



Weak cores also make workers more susceptible to injury.

Photos courtesy Goodknight Associates Co.



Reinforcing cores using aluminum or steel pipe can make damaged cores easier to use.

without hitting the pipe. This will reinforce the core from breaking and sagging. Having more than one pipe of the width being used will speed installation. Preload the rolls so the new roll can be loaded and the tractor or truck can be on its way while the other pipe is retrieved. If one end of the pipe is cut and welded into a rounded point, the pipe can more easily be pushed or pounded through a roll that the core is already broken on. This makes the roll useable, avoiding wasted fabric. **BVE**

Mounque Barazone is president of Geotextile Apparatus Co., San Diego, CA. He has written articles on paving fabric and its installation for *Pavement*, including "Effective Use of Geotextiles," February 1998; "Placing Paving Fabric," March 1998; and "Fabric Placement," May 1998.



Proper placement of fabric roll on placement machine on a front-end loader.

SEAL-A-LOT™ AUTOMATIC ASPHALT SEALER MACHINES (Pat. No. 5,362,178) (Trailer Mounted)



2 Size Sealers to choose from 120 gal. or 220 gal.
Sealer width adjusts from 3 ft. to 8 ft.

—Stackable Sealer Holding Tanks 300 & 500 Gal.

PAVE-A-LOT™

TRAILER MOUNTED AUTOMATIC ASPHALT PAVER & GRADER

2 Size Pavers to choose from. Full size adjusts from 40" to 12' 6", Mini adjusts from 30" to 9' 6". Both sizes 0" to 6" deep. Can be used with either Hot or Cold Asphalt. Also ideal for trench filling or shoulder work. (Attachments • Heated Screed • Up to 1" Crown • Curb Edger)



Paves like an expensive paver but sells for a fraction of the cost, it tows behind any dump truck, no special mounting needed. (Pat. Pending)

—Working video available on both for \$10.00 refundable on the purchase of a unit.

TOW BOY CO.

114 E. Division • Marine, IL 62061
618-887-4592 • Fax 618-887-9040

□ INDICATE 84 ON INQUIRY CARD



BLASTCAT

Coating, Paint & Line Removal

- Profiles as it cleans
- Dust free
- Self propelled
- One-man portable
- Removes up to 3,000 sq. ft. per hour

Let BlastCat solve your blasting needs!



BC-1315-R



BC-0702-M

Call toll free 800-524-0544 or (405) 528-7468

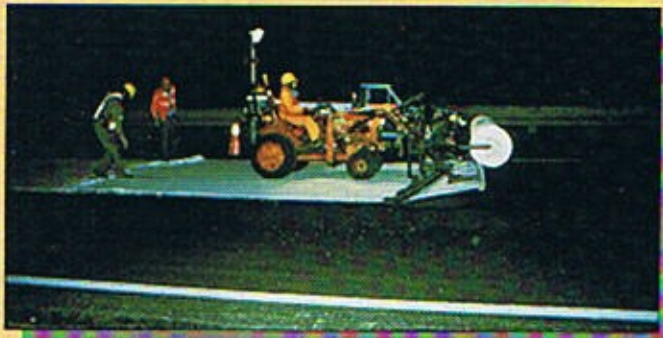
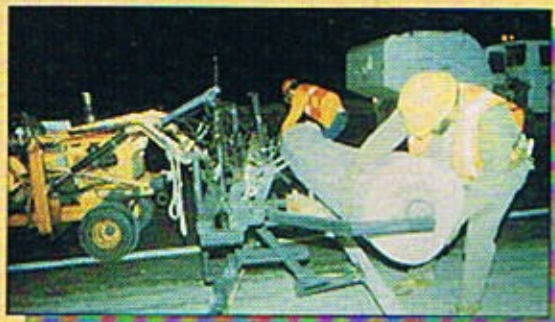
*FAX (405) 557-1517 www.blastcat.com

□ INDICATE 85 ON INQUIRY CARD

Starting out or changing roles

To begin fabric placement, or when a roll is finished, the laborers will cut the wrapper off the new roll. They will load the roll into the machine (right), pull the fabric down, stretching it under the brushes (bottom right), and place it in the tack, holding it in place as the tractor lowers, the machine slowly moving forward to keep the fabric tight (below).

As the machine makes good contact with the road, speed is increased. The laborers can then brush the overlap, gather up waste cores, fabric, wrappers and either move to the side of the road for clean up later or put in a following truck.



SIMPLY THE BEST. PINNACLE manufacturing



- 300-1500 gallon truck, trailer and skid units
- Hydraulic and manual full sweep offset agitation
- Large inventories of systems and components = fast deliveries
- 2 to 5 year leases available

Tanks • Pumps • Compressors • Strainers
Surge Bottles • Hoses • Wands • Tips

CALL 248.446.9077

INDICATE 86 ON INQUIRY CARD

Stepp Mfg OIL JACKETED KETTLE Melter and Applicator



OJK 250 Diesel Shown

- Six sizes available from 50 to 400 gallon.
- "Pump Saver" system doubles pump life.
- New - Heated overhead material delivery system.
Creates less maintenance & less operator fatigue.
- Diesel burner with external heat exchanger is more efficient and productive.
- Ultra low-profiles for easy loading.

Stepp Mfg Co Inc 800-359-8167

12325 River Road
North Branch, MN 55056
Fax 651-674-4221

"Building our reputation on creating innovative solutions and customized equipment for your asphalt maintenance programs"

INDICATE 87 ON INQUIRY CARD