

# Reflective Crack Mitigation with Paving Fabrics

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Dave Allshouse  
Crafco, Inc.  
Area Sales Manager  
800-528-8242  
[www.crafco.com](http://www.crafco.com)



## Paving Products

- Paving Fabric
- Peel and Stick Membrane
- Heavy Duty Strip Membrane



## Paving Fabric

- Non-woven paving fabric
- Field applied asphalt tack coat





### Paving Fabric Functions

- Forms a pavement moisture barrier
- Absorbs and dissipates stresses which induce pavement cracking

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**WATER** Is The Root Cause  
Of Most Pavement  
Deterioration

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## The Major Source:

Seepage Through Pavements



## Effects Of Water

- Effects on subgrade soil
- Effects of pore water
- Effects of free water
- Effects of ice





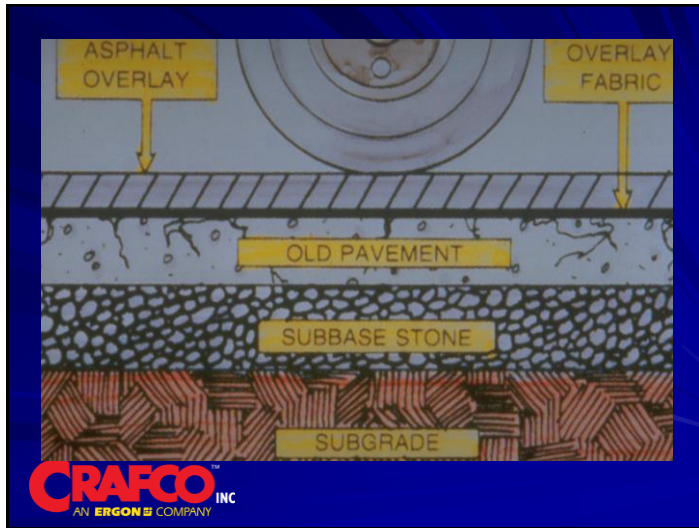
Paving Fabric

- Absorbs stresses
- Minimizes pavement cracking

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## Reflective Crack Mitigation with Paving Fabrics\_IAC09



Flexible Pavement Layered  
With  
A Paving Fabric  
Resists Fatigue Cracking.

Use In New Flexible  
Pavements To Provide A  
Moisture Barrier  
And To Extend Fatigue Life.

Laboratory Research  
Ohio State University  
-- 10 to 20 Times More  
Loadings Before Reflective  
Cracking



Paving Fabric  
Installation



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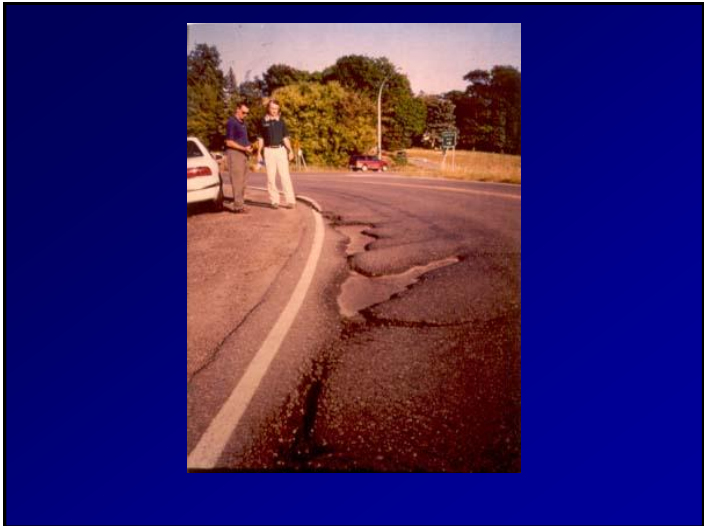
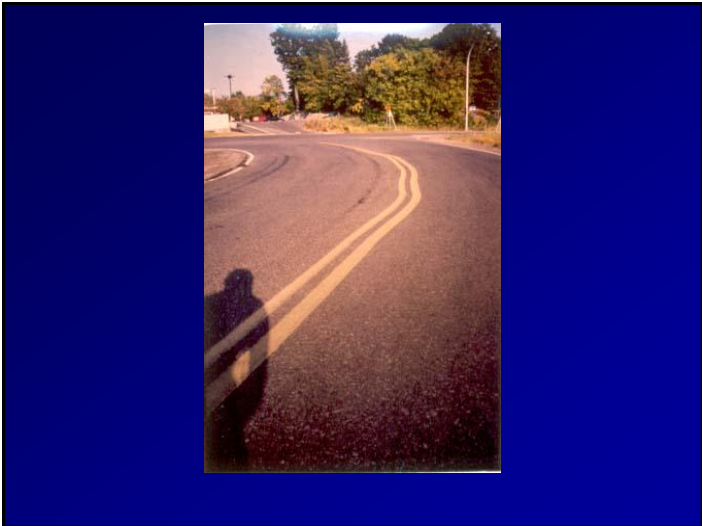
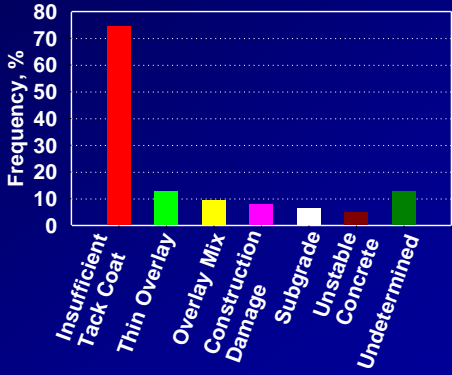
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# Reflective Crack Mitigation with Paving Fabrics\_IAC09

## Leading Causes Of Paving Fabric Complaints





## What is the difference between a Paving Fabric and Other Nonwoven Fabrics?

- Engineered properties
  - Heat Fusion of the top side
  - More consistent roll-up
- Correct fiber blend

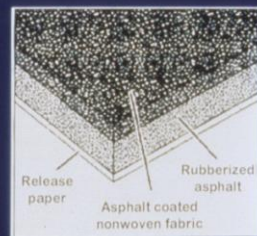


## Peel And Stick Strip Membrane



### Strip Membrane (peel and stick type)

- ◆ A stress-absorbing membrane interlayer



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## Reflective Crack Mitigation with Paving Fabrics\_IAC09



### Applications of a Peel and Stick

- Pothole Repairs
- Alligator Cracking
- Portland Cement Concrete Joints
- Bridge Decks
- Sealing Preformed Concrete Panels, Joints

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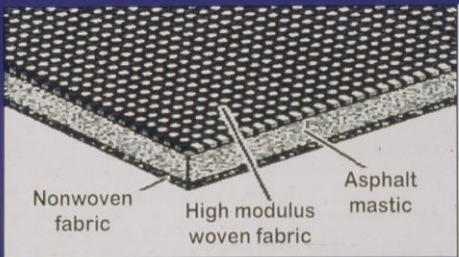
### Heavy Duty Strip Membrane System

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Reinforced Pre-Formed Membrane





### Brief Guidelines on Which System To Use

- **Paving Fabric** for full width applications, highways, airports, parking lots etc.
- **Peel and Stick Membrane**, bridge decks, longitudinal and transverse cracks, utility cuts, potholes
- **Heavy Duty Membrane**, PCC joints, heavily distressed pavement



# Questions?

