

ACE XP™ vs PAVING FABRICS

The advent of Surface Tech’s new ACE XP™ pavement overlay solution utilizes one of the strongest man-made fibers in existence — para-aramid. ACE XP™ in a hot-mix, hot-laid overlay application can go head-to-head with typical fabric applications in terms of cost. But in terms of performance, ACE XP™ comes out on top. It’s faster and easier to apply and more effective in reducing cracks.

Comparing ACE XP™ to commonly used paving fabrics generates four main considerations:

- Crack resistance and life cycle performance
- Ease of Use
- Cost Savings
- 100% Recyclable

	ACE XP™	Paving Fabrics
• TESTED PERFORMANCE	✓	
• CRACK RESISTANCE	✓	✓
• RUT RESISTANCE	✓	
• IMPROVED ESAL PERFORMANCE	✓	
• EASE OF INSTALLATION	✓	
• NO SPECIAL EQUIPMENT	✓	
• RECYCLABLE	✓	



ACE XP™ PERFORMANCE

- ACE XP™ adds 30% - 50% to the crack and rutting resistance of any asphalt mix per dose. (IDEAL CT and HWTT)
- On a test project for MoDOT last year, Mizzou Asphalt Pavement and Innovation Lab (MAPIL) measured a 47% increase in IDEAL CT score.
- In the MoDOT trial, MAPIL measured a 66% increase in rut resistance on the rural highway mix.
- In the Bending Beam Fatigue test, performed by the University of California Pavement Research Center (UCPRC), ACE XP™ added 200% to the crack resistance of PG64-22 mix at 900 micro-strains making it a better choice for portland cement concrete (PCC) asphalt overlays.

With all paving fabrics, the process is similar.

- Sub-contractors generally install paving fabrics.
- Scheduling and timeliness are often sacrifice working with third party vendors.
- Installation is risky. Folds, tack issues, wind construction traffic can ruin product performance.
- Paving grids often require a leveling course, adding additional scheduling and costs.
- Specialized equipment and third party vendors are expensive and required on most jobs.

From a constructibility perspective, ACE XP™ has several advantages over any rolled interlayer.

- ✓ Constructibility matters. ACE XP™ is the better way.
- ✓ ACE XP™ is the sustainable choice for long-term pavement owners.
- ✓ ACE XP™ is fully recyclable, paving fabrics are not — adding disposal cost to your next project.
- ✓ ACE XP™ is a value. No additional installation cost.
- ✓ ACE XP™ turns regular asphalt into a high-performance overlay, done faster and with less risk. Since the ACE XP™ normally costs the same or less than installed paving fabrics, the only remaining question in your mind should be, “Why haven’t I tried it?”

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