

CASE STUDY
VILLAGE OF GAMBIER
 Roadway
 Gambier, OH



PROJECT SUMMARY

A two lane roadway in the Village of Gambier, OH was experiencing reflective, thermal and transverse cracking due to traffic and the region’s harsh freeze and thaw conditions. Additionally, there was longitudinal cracking along the center of one of the lanes due to differential settlement from a trench line.

The project engineer wanted to reconstruct the road using a sustainable design practices. This was the first time the Village of Gambier set a goal to waterproof the roadway, mitigate reflective cracking, and extend pavement life.

PETROMAT® Enviro™ was selected to provide moisture protection and stress absorption to the new roadway. This paving interlayer is engineered to mill into small pieces so it can easily be recycled. Plus, it can be installed directly onto a milled surface without a leveling course.

Approximately 7,000 square yards of PETROMAT Enviro was installed directly onto the milled surface of the roadway. The project installers were impressed with how easy and efficient the interlayer was to use.

PROBLEM

A two lane roadway was experiencing cracking due to freeze and thaw conditions and differential settlement from a trench line.



INSTALLATION

PETROMAT Enviro was installed directly on a milled surface to provide a moisture barrier and stress absorption.

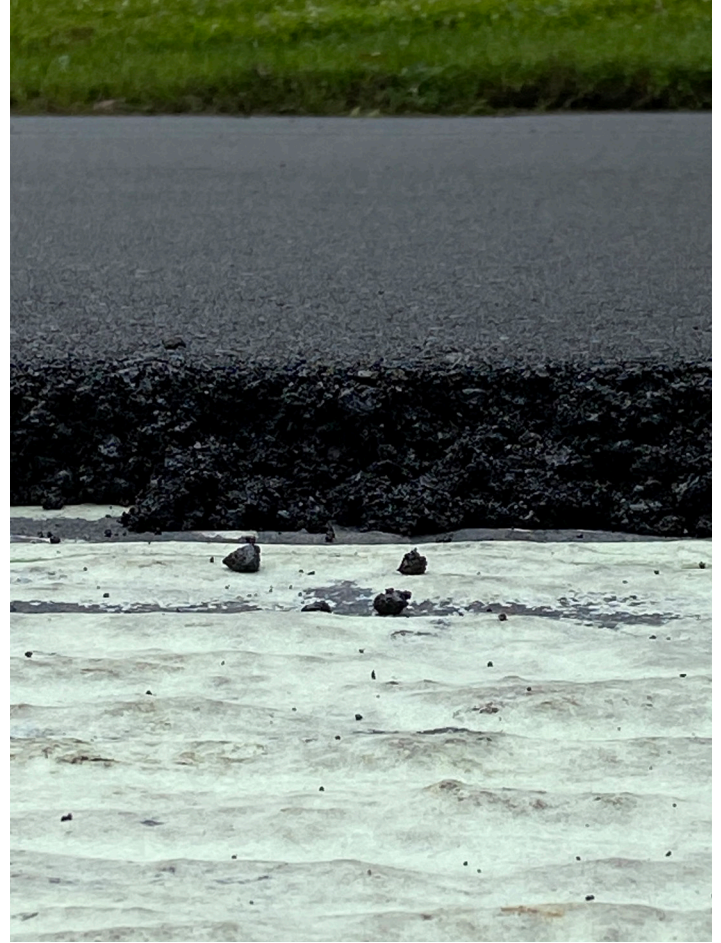


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FEATURES & BENEFITS

- Easily mills into small pieces that can be recycled into new asphalt concrete
- Provides a superior moisture barrier to prevent water infiltration into the base and subgrade
- Can be placed directly on a milled surface without a leveling course, saving \$3-\$4 per square yard
- Easily installs around curves without tearing
- Absorbs more asphalt than glass alternatives, providing greater stress absorption and reduced reflective cracking
- Faster and easier to install than fiberglass paving products, reducing overall project costs



PERFORMANCE

Using PETROMAT Enviro will mitigate future cracking, extend the pavement life of the reconstructed roadway, and easily recycle at the end of its useful life.



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PO Box 19269
4019 Industry Drive
Chattanooga, TN 34716

p: 800 621 1273
f: 423 899 5005
PropexGlobal.com

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