



CASE STUDY

ALTOONA-BLAIR COUNTY AIRPORT

Airport Pavement Rehabilitation
Martinsburg, PA

PROJECT SUMMARY

The Altoona-Blair County Airport is a regional airport in central PA. One of its runways was experiencing reflective cracking due to the harsh freeze/thaw conditions that are common in the winter months. Daily impact on airport pavements can cause fatigue in the surface layer, leaving pavements vulnerable to further damage caused by moisture infiltration and traffic loading. The condition of the asphalt runway was becoming a safety concern for incoming and outbound flights.

The project engineer advocated the use of paving interlayer fabrics to extend the design life of flexible pavement runways, but had never specified a sustainable asphalt paving interlayer fabric. PETROMAT® Enviro™ is a paving fabric that is engineered to mill into small pieces so it can easily be recycled. It effectively mitigates stress and moisture on runways, taxiways and aprons to help preserve pavements for smooth take-off and landing.

Half of the asphalt was milled off the existing runway wearing surface and PETROMAT Enviro was installed directly onto the milled surface. Enviro is engineered with optimal elongation, allowing it to be installed directly on a milled surface without a leveling course.

Finally, a two inch finished surface course was installed directly on top of the PETROMAT Enviro. A total of 20,000 square yards was easily installed.



PROBLEM

An existing runway needed to be rehabilitated due to longitudinal and traverse cracking



INSTALLATION

More than 20,000 square yards of PETROMAT Enviro was installed to mitigate stress and moisture



PETROMAT®
Enviro The Recyclable Paving Fabric

PropexGlobal.com/PetromatEnviro

FEATURES & BENEFITS

- 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, as necessary when using glass-based products, saving \$4-\$5 per square yard
- Faster and easier to install than fiberglass paving products, reducing overall project costs
- Absorbs more asphalt than glass alternatives, providing greater stress absorption and reduced reflective cracking
- Easily mills into small pieces that can be recycled into new asphalt concrete
- Provides 360 degree strength for multidirectional performance



PERFORMANCE

Using geotextiles in airfield pavements improves structural and functional performance, increases design life, and decreases future maintenance



INNOVATION TO BUILD ON™

Visit our website for more information, Product Samples, or other inquiries, or call Customer Service at 800 624 1273

PO Box 19269
4019 Industry Drive
Chattanooga, TN 34716

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

PGS-1663E-001 (11/2020)