



## CASE STUDY

# SR-11 KYTC DISTRICT 10

Slope Stabilization  
Slade, KY

## PROJECT SUMMARY

Comprised of five distinct branches Kentucky Transportation Cabinet (KYTC) Maintenance Division has a common goal of maintaining a safe, efficient, environmentally sound and fiscally responsible transportation system to ensure mobility and access and to promote economic growth for all citizens of the Commonwealth. The Roadway Maintenance Branch conducts roadway maintenance which includes the repair and stabilization of small slips and slides.

In 2020, KYTC created Master Agreements (MA) for the use of an engineered earth armoring solution (EEAS) as an alternative to rock to repair slips and slides.

In 2022, KYTC chose to use the EEAS Type 3 system setup within the MA to stabilize a slope on SR-11. ARMORMAX consisting of PYRAMAT® 75 HPTRM and nine-foot Type B2 anchors on a 4' X 4' spacing, met the KYTC EEAS Type 3 specifications. Permanent seeding was placed beneath the HPTRM and has begun to vegetate and blend into the natural surroundings of the state park.

The ARMORMAX system helped KYTC meet their goal of providing a safe, efficient, environmentally sound and fiscally responsible option to repair the slope while also ensuring access to the state park and economic growth in the surrounding area. Propex personnel provided on-site training and construction support to the contractor and KYTC Maintenance personnel.



## PROBLEM

In 2021, KYTC District 10 personnel observed cracks and sloughs on a fill slope adjacent to SR-11. The roadway serves as a dam embankment for Mill Creek Lake, which is located in KY Natural Bridge State Park.



## SOLUTION

To stabilize and repair the slope and blend it aesthetically into the natural environment of the park, KYTC chose to use the ARMORMAX with B2 anchors to stabilize the slope.



**ARMORMAX**<sup>®</sup>  
Engineered Earth Armoring System

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## FEATURES & BENEFITS

- Provides permanent erosion protection for up to 75 years
- Withstands hydraulic and non-hydraulic stresses
- Ease of installation reduces time and labor costs
- Promotes and reinforces vegetation
- Promotes infiltration of surface water
- Outlasts other slope reinforcement methods yielding significant cost savings
- Highly UV stabilized for applications with little or no vegetation
- Lightweight and easily transported into areas with access challenges



## PERFORMANCE

ARMORMAX outlasts other slope reinforcement methods and promotes vegetation for an aesthetically pleasing solution

## INNOVATION TO BUILD ON™



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

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