

# Project Profile: Horasan Kurtozu Sarıkamış Highway

## 'Impossible' Roadside Rehabilitation a Success in Turkey

During highway construction near Horasan, Turkey, the nation's Director of Highways was faced with erosion issues on a steep slope, where previous abatement treatments had failed. Specifically, the director was looking for a permanent, environmentally-friendly solution that was also cost-efficient. After considering an environmentally unfriendly stone wall, the head of the construction team reached out to Profile Products for expert assistance. After a complete soil analysis, Profile discovered that the soil had low levels of organic structure as well as low pH levels.



*The existing soil had minimal organic levels as well as low pH.*



*ProGanics™ was applied to amend the existing soil.*



*Flexterra® HP-FGM™ was then applied to prevent erosion and sediment runoff.*

**PROJECT NAME**  
Horasan Kurtozu —  
Sarıkamış highway project

**PROJECT OWNER**  
Republic of Turkey —  
General Director of Highways

**CONTRACTOR**  
Nuhoglu Construction

**DISTRIBUTOR**  
Karadeniz Cevre Teknolojileri  
Hydroseeding

**APPLICATION LOCATION**  
Horasan

**ALTITUDE**  
1,565 m

**APPLICATION TIME**  
May 2, 2016

**CLIMATE**  
Continental Climate

Upon reporting these findings and offering a solution that would mitigate the soil problems and keep erosion in check, the contractor was still unconvinced that Profile's plan would yield the results required. Confident in their recommendations, Profile convinced the lead contractor to let the company do a demonstration rehabilitation so they could see for themselves what could be achieved.

Before the demo, Profile was told that the contractors had deemed the area to be beyond rehabilitation. A mere 20 days later, however, the results convinced them otherwise. Vegetation had been established and the slope stabilized.

The contractor was very happy to have been proven wrong, and Profile's solution had indeed met all of the challenges. A contract was signed for the entire project area shortly thereafter.



*Vegetation established in just 20 days.*

### CHALLENGE

- Steep slopes
- Low organic levels

### SOLUTION AND APPLICATION

- Soil tests taken to determine necessary amendments
- Flexterra® HP-FGM™
- ProGanics™
- JumpStart™ 5
- BioPrime™
- Limestone