



# Mechanically Stabilized Earth for Landfill

## Featuring Polyshield SS-100®

**Project:**  
Landfill (Wrap Face)  
Perimeter Wall

**Location:**  
Bend, OR

**Owner:**  
City of Bend

**Applicator:**  
Cascade Industries

**System:**  
Polyshield SS-100® over  
woven Geo-textile

**Total Area:**  
10,000 square feet

**Completion Date:**  
March 2002

### PROBLEM:

The City of Bend, Oregon was in search of a fast-cure coating to reinforce the 1,250-foot long city landfill retaining wall. Urethane coatings had been considered, but were impractical due to their inability to penetrate the existing geo-textile fabric. In addition, urethane coatings require multiple coats, and have a slower cure rate.

### SOLUTION:

Polyshield SS-100® was selected to expedite completion of this project due to its superior strength, ability to bond tenaciously to the existing geo-textile fabric, and its fast turnaround time (tack free in less than one minute).

Polyshield SS-100®'s ability to be sprayed at any thickness in a single application, saves time and labor costs. Polyshield SS-100® was applied at 60-mils to the woven geo-textile fabric, reinforcing the landfill retaining wall and eliminating leaks.

### RESULTS:

Reinforcing the retaining wall with Polyshield SS-100® (on geo-textile fabric) increased the landfill's service life by four years and its capacity by 1.2 million cubic yards.



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