



CASE STUDY

BOSTON AREA MARINA

Steel Sheet Pile Protection



Project Data

Location	Weymouth, MA
Completion	2012
Project Type	Steel Sheet Piles
Products Used	Rigspray
Contractor or Applied By	American Steel Coatings Company

Project Details

The failure of an existing timber marine sea wall led CLE Engineering to specify Rigspray (polyester glass flake coating) as the coating to protect new steel sheet piles from corrosion.

The scope of the project included removing the old and damaged timber bulkhead and replacing it with new Rigspray coated steel sheet piles. There was a total of 107 pieces of 55" wide x 45' long sheet pilings with each one weighing over 6,000 lbs. A quantity of 1,250 gallons of Rigspray (250 ea. 5 gallon kits) was used to coat the double-sided sheet piles. The total surface area coated was over 50,000 square feet.

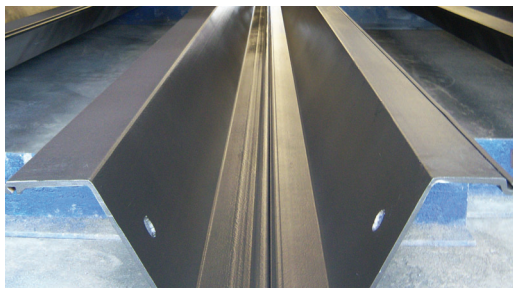
American Steel Coatings Company spray applied all the sheet piles with an airless spray unit at their facility in West Greenwich, RI. The coated sheet piles were then transferred to Tern Harbor Marina in Weymouth, MA (10 miles south of Boston, MA). The existing damaged timber bulkhead was removed and the new Rigspray coated sheet piles were driven into place. The completed bulkhead totaled 490 lineal feet wide (107 ea. 55" wide sheet piles).

Benefits

- Excellent Corrosion Resistance
- Fast Dry and Set Times
- High Build Up to 40 mils in One Coat
- High Abrasion Resistance
- Excellent Undercutting Resistance
- Very Low Water Permeability
- Excellent Water / Sea Water Resistance
- High Temperature Tolerance
- Excellent Cathodic Disbondment Results



Spraying Denso Rigspray to sheet pile.



New sheet pile just after Rigspray was applied (55" wide x 45' long weighing over 6,000 lbs.).



Driving the new Rigspray coated sheet piles.

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