



CASE STUDY: ARMORLINER 45L

A CLOSER LOOK: WATER STORAGE POND



Site ready for installation of liner



Anchor trench at top of pond to hold liner in place

The Details

Application: Reclaimed Water Storage Pond
Location: Hollister, CA
Product: ArmorLiner 45L
Quantity: 210,000 sf
Owner: San Benito County Water District
Engineer: Dahl Consultants Folsom, CA
Contractor: Auburn Constructors / ECAplications

The Customer

The San Benito County Water District has a mission to preserve the economic and environmental health and well-being of San Benito County through the control, management, conservation of waters and the provision of water services in a practical, cost-effective and responsible manner. Therefore, they are taking a proactive approach to protecting the water throughout the area. Part of this approach was construction of a large pond to handle reclaimed water from surface water runoff.



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AquaMaster 45L being installed in large panels

The Challenge

As the pond is adjacent to the San Benito River bed, most of the soils are a sandy gravel with trace amounts of silt which would not hold water. The engineers decided the pond needed to be lined, so they could prevent the seepage of water outside of the pond. The liner would need to be durable and have high puncture resistance, as the soils contained large amounts of rocks. The liner also needed to have excellent strength properties, so it could survive the environment and hold up on the steepened slopes of the pond.

The Solution

Engineers needed to choose a product with excellent strength. They chose IPG's AquaMaster® ArmorLiner™ 45L for just this reason. IPG's AquaMaster ArmorLiner 45L was chosen for its strength-to-weight ratio and was the best option for preventing punctures while continuing to support and confine the water.

The IPG Advantage

IPG's AquaMaster ArmorLiner 45L was also chosen because of its ability to be factory fabricated into large panels. This would reduce the on-site installation time and the need for additional costly field seams, which would help the project be installed quickly and on time. The product was installed in October 2016 and took only one week to install. The speed at which these liners can be installed help keep the project on time.

References: John Dahl, Dahl Consultants Folsom, CA
San Benito County Water District, Hollister, CA
Mark Hargrove, GEI Engineering,
Rancho Cordova, CA



Completed pond ready for water



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