



## PROJECT PROFILE

# BOX CULVERT VERTICAL & OVERHEAD REPAIR



### PROJECT DATA

**Location** – El Cajon, CA

**Application** – Repair: Vertical & Overhead

**Architect/Engineer** – Kleinfelder

**General Contractor** – Hazard Construction

**Material Supplier** – White Cap

### PRODUCTS FEATURED

#### DURALPREP A.C.

Bonding Agent and Anti-Corrosion Coating for Reinforcement

#### EUCOREPAIR™ V100

Single-Component, Low Shrinkage, Vertical/Overhead Repair Mortar

#### EUCOLASTIC® 1NS

Single-Component, Non-sag, Polyurethane Hybrid Sealant

### SCOPE OF PROJECT

Repair of spalled and delaminated concrete on a box culvert roof

### PROJECT SUMMARY

The repair of a box culvert in the Forest Creek recreation area involved the rehabilitation of the deteriorated roof structure experiencing concrete spalling, delamination, and exposed reinforcing steel. The repair scope required restoring structural integrity while ensuring durable performance under environmental exposure and service conditions.

A system approach using Euclid Chemical products was incorporated into the project specifications after being proposed to and approved by the structural engineer. Duralprep A.C. was utilized as both a bonding agent and anti-corrosion coating, providing strong adhesion between new repair materials and the existing substrate while protecting reinforcing steel from further corrosion. Its extended open time supported efficient placement under challenging field conditions.

EucoRepair V100 was selected for vertical and overhead repairs due to its low shrinkage, fiber reinforcement, and high bond strength, which are critical for minimizing cracking and ensuring long-term durability in structural repairs. Its rapid-setting characteristics also supported project scheduling requirements and reduced downtime. Eucolastic 1NS was used to seal joints.