

SealBoss Case Study

Date of Completion: April, 2007 - Present

Location: Santo Domingo Metro – Santo Domingo, Dominican Republic

Contractor: Soluciones Ambientales Del Caribe

Supplier: Oficina para la Reorganizacion del Transporte (OPRET)

Engineering Firm: OPRET

Scope: Client is experiencing significant water intrusion through tunnel joints following application of positive side membrane. Expansion joint leaks must be proven completely dry in order to pass inspection. Said tunnel is for newly constructed metro rail system through downtown Santo Domingo, Dominican Republic

Repair Method: Soluciones Ambientales del Caribe utilizes **SealBoss** 1570 water-activated hydrophobic polyurethane to seal joints in tunnel. Hundreds of gallons of 1570 are injected into the joints via 45 degree angle drilling behind the expansion joints. Injection ports are spaced 250mm apart utilizing 13mm x 60mm steel mechanical packers. Several kilometers of injection work is performed in order to pass dry inspection. Application leads up to Caribbean hurricane season during and after which dry inspection passes.



Figure 1. Active leaks at joint



Figure 2. Tunnel Construction



Figure 3. Maximo Gomez Terminal



Figure 4. Dry terminal post inspection