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## CASE HISTORY



**Project:** City Place Underground Subway Tunnel  
Dallas, Texas

**Owner:** Dallas Area Rapid Transit

**Injection Systems:** Duro Rapid, Duroseal Inject and Gel

**Area:** 500 Linear Feet

**Completed:** April 1996

The City Place Underground Subway Station, owned by the Dallas Area Rapid Transit (D.A.R.T.) and being constructed by the S.A. Healy Construction Company, began developing water leaks at several construction joints. Although the tunnel was completely lined with a waterproof membrane supplied by Wisko America Inc., prior to the final concrete pours, the leaks were still occurring.

Wisko America suggested that BBZ, USA be contacted for a solution to this problem. Monica Rourke, Director of Technical Service for BBZ, USA met with S.A. Healy and D.A.R.T. and set up a proposed solution to inject the leaking areas.

Larry Jean of Jean's Waterproofing, Inc., a qualified BBZ applicator, and Hans Angerhausen, an expert tunnel technician from BBZ's offices in Germany, were brought in by Monica Rourke to work with S.A. Healy and Wisko America in sealing the leaks in the tunnel.

The materials used for injection varied in accordance with the severity of the leak. All areas with flowing water were injected with Duro Rapid, which as the name suggests, cures before the flowing water can wash it away and forms a dense, rubber like seal within the joint or crack.

Duroseal Inject was the BBZ Injection Resin used in joints or cracks that were only weeping or just damp. Due to its lower viscosity and longer reaction time, it was the perfect application for the finer, low flow joints and cracks. After eight days of injection, approximately 500 linear feet was injected.

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