

CASE HISTORY

BBZ RESIN INJECTION SYSTEMS

Project:	Coker Pit Repair	Engineer:	Bechtel
Owner:	Marathon Ashland Petroleum LLC	GC:	James Ind. Contractors
Injection System:	Duroseal Inject	Completed:	May 2001

In the spring of 2001 James Industrial Contractors consulted with Melbar, Inc. to find a solution to a leaking construction joint. Melbar, Inc in turn contacted BBZ USA Inc.

A representative of BBZ USA Inc. and A representative of Melbar, Inc. made a joint site survey. The area in question was an interface between the floor slab and an inclined wall. The inclined wall was 12 inches thick and had a six-inch water stop in the center. The joint was wet for two thirds of its length.

It was agreed that James Industrial Contractors would perform the injection with technical assistance from BBZ USA Inc. The first step was to plan where to place the injection packers. In most circumstances the injection packers are installed at a 45° angle to the joint to be injected. With the water stop already in place it was decide to install the injection packers at a 70° angle in front of the water stop. This would allow the water stop to prevent the injection material from flowing out of the back of the joint and into the backfill.

After all the holes had been drilled, the injection packers were installed. Every fourth hole was left open to allow water to escape and the resin to be observed.

The **Duroseal Inject** was mixed per manufacturers recommendations. The mixed resin was injected using an airless sprayer. Material was injected into each packer until resin was seen at the observation port or was seen exiting the joint. This process was continued until all the injection packers were filled and the joint was sealed.

