

Concrete Coal Bunker

TIVAR® 88 HIGH PERFORMANCE LINING SOLUTIONS

CASE STUDY OUTLINE

Application:	140ft. high concrete bunker divided into 4 quadrants with each quadrant divided into 4 hoppers. Liners were installed in 2 of the quadrants.
Liner:	TIVAR® 88-2
Bulk Material:	Coal
Problem:	Rat-holing, plugged discharge, and erratic flow conditions.

TIVAR® 88-2 Liners Eliminate Flow Restriction, Adhesion In Coal Bunker

BACKGROUND

Large steel making facility was concerned about slowdowns in production. Considerable resources were applied with no effect. Escalating lost production demanding a solution.

PROBLEM

The coal mixture would adhere to the concrete walls and to the glass tiled sloping surfaces. This resulted in a plugged discharge and missed charges in the coal furnace. Engineering firms recommended building a new steel hopper structure inside the existing bunker. Lost production time and overall cost was prohibitive.

SOLUTION

Plastruct Polyzone evaluated the existing concrete and glass lined bunker. The hopper wall slop angle was not providing mass flow. Plastruct Polyzone's engineering determined that a solution could be obtained without structural work to the existing bunker. TIVAR® 88-2 liners were engineered and fabricated to fit into existing concrete hopper and discharge chute. Existing glass tile was removed prior to installation of liner.

RESULT

After the TIVAR® 88-2 liners were installed; all the buildup and sticking problems have been completely eliminated. After 5 years of operation, the liners have shown no visible wear. Production rates were at levels not seen since bunker was in operation.



IMPORTANT: Design, fabrication and installation of Tivar® 88 lining systems are engineered by Plastruct Polyzone Canada Inc. It is crucial for a successful result that we analyze and provide a professional approach to the problem. Our experience in handling the toughest lining situations has proven itself. Call 800-642-7797 to speak to a linings professional.



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