



## Case study: Gypsum Hopper

TIVAR 88 HIGH PERFORMANCE LINING SOLUTIONS

### CASE STUDY OUTLINE

**Application:** 14 x 12 Heavy Wall Steel Hopper

**Liner:** TIVAR 88-2

**Bulk Material:** 6" Minus Gypsum

**Problem:** Major sticking of mud and fines. Damage to hopper from equipment trying to clean out.

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## TIVAR 88-2 Liners Eliminate Flow Restriction, Adhesion in Gypsum Hopper

### ▶ BACKGROUND

National drywall manufacturer struggles to provide steady flow of large gypsum rock into process through a number of heavy duty steel hoppers.

### ▶ PROBLEM

The mud and fines of the gypsum sticks to the sloping steel hopper walls. This resulted in a plugged discharge and conveyor 'blanks' on the feeder conveyor going into further processing.

### ▶ SOLUTION

TIVAR 88-2 liners were engineered and fabricated to fit into existing steel hopper and discharge chute. Steel hopper was re-worked and Tivar 88-2 liners were installed including radiused corners to eliminated corner sticking.

### ▶ RESULT

After the TIVAR 88-2 liners were installed, all the build-up and sticking problems have been completely eliminated. Hiccups in feeding equipment were also eliminated. After 3 years of operation, the liners have shown minimal wear. Production staff noted substantial labour savings to monitor and clean the hopper.

