JADCO CASE STUDY

HIGH VELOCITY SURGE BIN

OVERVIEW

A 500 ton per hour sand plant in the Midwest, along the Mississippi River Basin, feeds sand through a high velocity surge bin with a 1–2 foot drop and a flow rate of 20 feet per second. The mild steel bin wore out from fine particle abrasion and had to be replaced every year. JADCO recommended CHROMEWELD™ 600 with FUSION™ 600E, and after one season the bin showed no visible sign of wear.

WHO: SAND & GRAVEL QUARRY
WHAT: HIGH VELOCITY SURGE BIN
WHERE: MIDWEST, USA

INDUSTRY: AGGREGATES
CHALLENGE: FINE PARTICLE ABRASION
SOLUTION: CHROMEWELD 600 & FUSION 600E

CHALLENGE:

The 500 ton per hour sand plant drops material 1–2 feet into the surge bin at 20 feet per second. That velocity, combined with fine particle abrasion, wore through the mild steel bin so quickly that it had to be replaced every year.

SOLUTION: CHROMEWELD 600 | FUSION 600 E

JADCO recommended CHROMEWELD™ 600 for the added wear life it delivers against high velocity and fine particle abrasion, paired with FUSION™ 600E. After one season, the bin went from yearly replacement to no visible sign of wear.

RESULTS

JADCO SOLUTION...

- NO VISIBLE WEAR AFTER 1 SEASON
- ENDED YEARLY BIN REPLACEMENT
- HANDLES 20 FT PER SECOND SAND FLOW
- ROLLING OUT TO 30+ FACILITIES
- NEXT: DREDGES AND PLANT EQUIPMENT

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