

Chockfast Red Absorbs Vibration and Maintains Alignment for Natural Gas Compressor Skid

Problem:

At a crude oil refinery, a new compressor skid was being installed for the processing plant. The plant was seeking an epoxy grouting system that would assure precise alignment and long-lasting results, while also lowering maintenance and total operating costs.

Without the installation of a high performance grouting solution, the equipment would experience high vibrations and an increased potential for failures, leading to higher maintenance cost and operational risk.



Compressor skid prior to placing Chockfast Red epoxy grout

Solution:

Chockfast Red grout was selected for its superior performance and proven reliability in the industry.

- To begin installation of the compressor skid, the primary concrete foundation was poured.
- Once the concrete was fully cured, the top surface of the foundation was mechanically prepared to promote adhesion to the epoxy grout.
- The compressor skid was placed on the foundation and aligned to the final position.
- Wooden flow boxes and forms were built around the compressor skid to aid the pouring of the Chockfast Red.
- Chockfast Red was poured and allowed to cure for approximately 24 hours.
- After curing, the leveling screws were removed, the anchor bolts were tensioned, and the compressor was ready for commissioning.



Concrete foundation chipped and abraded



Headboxes constructed for effectively placing Chockfast Red

Chockfast

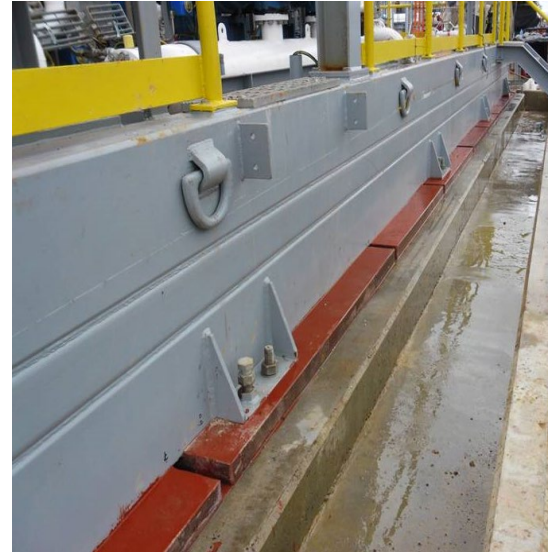
Project Outcome:

Long Lasting Results

With an emphasis on high performance, this facility was looking for a grouting solution that would stand the test of time. Because of Chockfast Red, operational vibration energy from the rotating equipment was transferred completely to the foundation system. The high performing epoxy grout was able to deliver long-lasting results for this plant and limit repairs to the foundation of the compressor skid.

Lower Total Cost of Ownership (TCO's)

By utilizing Chockfast Red grout, this natural gas refinery was able to lower the total cost of ownership of the compressor skid. In providing a long-lasting solution, maintenance repairs were much less frequent, and the service life of the compressor skid was effectively prolonged.



Chockfast Red after final curing

The technical information, recommendations and other statements contained in this sheet are based upon good faith tests or experience that ITW Performance Polymers believes are reliable, but the accuracy and completeness of such information is not guaranteed. This information is not intended to substitute for the customers' own testing. ©ITW Performance Polymers, August 2023.