

## Challenge

### Background

A split horizontal fire pump with a replaceable stuffing box experienced a wide range of temperatures during operation. The challenge was to seal new stuffing boxes to the pump's volute saddles effectively and allow for easy disassembly for future maintenance.

## Solution

### Product

**Chesterton 860 Moldable Polymer Gasketing (MPG)** was introduced as the gasketing material to seal the stuffing boxes. This material can be used in temperatures ranging from -51°C to 260°C (-60°F – 500°F). Disassembly is quick since **860 MPG** does not bond mating surfaces together or stick.

## Results

### Savings

**860 MPG** cured rapidly, is permanently elastic, and did not stick. In addition, it was able to withstand the wide temperature swings.

**Chesterton 860 MPG** turned out to be a highly convenient and effective solution in this pump repair.



*Pump volute saddle before sealing.*



*Chesterton 860 MPG seals stuffing boxes.*



*Horizontal pump with 860 MPG applied.*