

Alchatek

CASE STUDY
LEAK SEAL

QUENCHING TANKS

Contractor Seals Leaks in Quenching Tanks *for Aluminum Manufacturer*

A large Mid-Western aluminum manufacturer was losing water from all of its quenching tanks and turned to a trusted maintenance contractor, who came to Alchatek for guidance on how to efficiently mitigate the leaks with minimal downtime.

WATER LOST IN HALF A YEAR
3 million *gallons*

PRODUCT
Spetec F400

01 What made this job *difficult.*

QUENCHING TANKS

A large Mid-Western aluminum manufacturer was losing water from all of its quenching tanks. Losing 3 million gallons in half a year can be expensive, not to mention the massive effect that volume of water can have on soil and the structures it supports.

THE ASK

Mitigate the leaks efficiently, with minimal downtime.

THE CONSTRAINT

3 million *gallons*

LOST IN HALF A YEAR

AT A GLANCE

±340 cps	>302 °F	290 psi	±100 %
VISCOSITY AT 77°F (25°C)	FLASH POINT	TENSILE STRENGTH	ELONGATION AT BREAK
ASTM D4878-98	ASTM D1310-86	ASTM D3574-03	

02 What was specified, *and how it went in.*

SPETEC F400

After consulting with Alchatek, the contractor injected Spetec F400 to seal the leaking cracks.

DISTRIBUTOR SUPPORT

The contractor purchased the Spetec F400 from an Alchatek Leak Seal distributor, with Alchatek Technical Services supporting the job.

THE MATERIAL

Spetec F400

SPETEC F400

Solvent and phthalate-free, water-reactive, hydrophobic, closed-cell, low viscosity, shrink-free, flexible, one-component polyurethane injection resin designed to shut off water leaks.

THE METHOD

01	02	03	04
Drill the injection holes.	**Flush** debris out of the holes with water.	**Install** the injection port.	**Flush** the crack with water.

03 What the result was, *and what confirmed it.*

THE OUTCOME

The crew repaired leaks in one tank at a time with no manufacturing delays. This meant no production interruption. The work was done at a fraction of the cost of replacing the tanks.

ONE JOB, THREE WINS

The Manufacturer

No production interruption, completed at a fraction of the cost of replacing the tanks.

The Contractor

Technical guidance from Alchatek to seal the leaks efficiently, with minimal downtime.

The Distributor

A material sale to the contractor, backed by Alchatek technical support.

START THE CONVERSATION

Send us the job.
We will send back an approach.

Send us the soil report or the failure photos and Technical Services will return a written approach within two business days.

TECH SUPPORT

404 · 618 · 0438

WWW.ALCHATEK.COM

Alchatek

Alchatek manufactures polyurethane resins, chemical grouts, and injection equipment for infrastructure repair: leak sealing, soil stabilization, concrete lifting, and seawall repair. Headquarters in Tucker, Georgia, with a bonded warehouse in Reno, Nevada.

Information in this document is believed accurate at the date of publication. Product performance depends on site conditions and application; consult the current Technical Data Sheet, which is the controlling document.

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