

Alchatek

CASE STUDY
LEAK SEAL

CONCRETE TANK ROLLINSVILLE, COLORADO

Sealing Hairline *Concrete Cracks*

Sealing Hairline Concrete Cracks with Acrylic Injection Resin

ELASTIC CURE OF SPETEC AG200
500% *elongation*

PRODUCT
Spetec AG200

01 What made this job *difficult.*

CONCRETE TANK
ROLLINSVILLE, COLORADO

A concrete tank west of Rollinsville, Colorado began showing numerous, hairline cracks during construction. Previous attempts to seal the cracks using urethane grouts were unsuccessful due to the sheer tightness of the cracks and high amount of reinforcing steel. The tank was critical for a state infrastructure project, so a leak seal contractor was called in to get the job done.

KEY CONDITION

Hairline cracks too tight for urethane grouts, with a high amount of reinforcing steel.

THE CONSTRAINT

Hairline cracks

URETHANE GROUT HAD ALREADY FAILED

The cracks were too tight for urethane grouts to penetrate, heavy reinforcing steel crowded the walls, and the tank was critical to a state infrastructure project.

AT A GLANCE

500 %	6 cps	9 s–7 min	41–104 °F
ELONGATION WHEN CURED	MIXED VISCOSITY AT 68°F	POT LIFE AT 68°F	PROCESSING TEMPERATURE (SUBSTRATE) 5–40°C

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

SPETEC AG200

After a phone consultation with an Alchatek tech consultant, the contractor determined the best course of action would be to use Spetec AG200, a super-thin acrylate grout that could penetrate the hairline cracks and even the ones previously injected with a urethane grout. This water-swelling hydrogel is based on low-viscous acrylic that cures into an elastic product with 500% elongation.

THE MATERIAL

Spetec AG200

SPETEC AG200

Water-swelling hydrogel based on low-viscous acrylic that cures into an elastic product with 500% elongation.

THE METHOD

01
Consult
Contractor consulted an Alchatek tech consultant by phone to determine the best course of action.

02
Train
The tech consultant trained a knowledgeable polyurethane grout crew how to handle Spetec AG200 and an acrylic pump.

03
Inject
The grout was injected into the hairline cracks.

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

THE OUTCOME

After the grout was injected, the cracks sealed quickly. Both the customer and contractor were extremely happy with the results.

THE OUTCOME

No chemical grout manufacturer other than Alchatek was willing to come out and provide field service for this application.

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 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.