

CASE STUDY



FEATURING



SITUATION

The Hoosier Pass flume operated by the City of Colorado Springs, Colorado, transports water from the western slope through the Continental Divide tunnel to one of the City's reservoirs. Since its construction in 1951, this tunnel has significantly degraded. The expense to replace this steel and concrete structure would be substantial.

SOLUTION

After researching options, the City chose to utilize an advanced protective coating. Structure Guard®, a 100% structural epoxy, was the coating chosen for this extreme case. Capable of rehabilitating the present condition and, providing years of continued protection for both the concrete and steel portions of the structure. This was a great test of the strength and durability of Structure Guard.

Also, due to the pristine Rocky Mountain environment it was imperative that the material used was NSF 61 certified and contained no VOC's.

The steel portion of the flume was sandblasted and the concrete portion was power washed prior to applying 150 mils to both substrates.

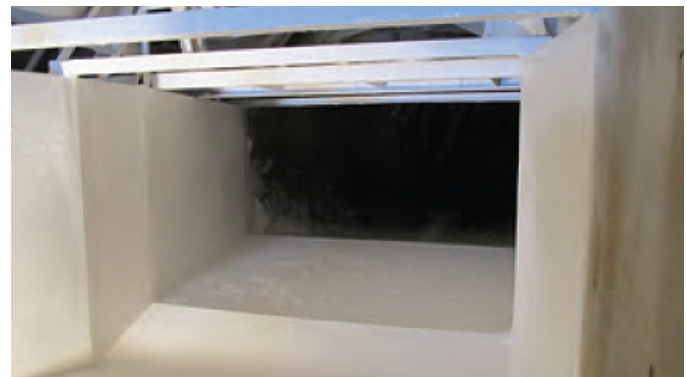
RESULT

City personnel continued to monitor the project for failure such as delamination due to changing substrates, abrasion degradation, cracking due to extreme temperature changes at 12,000' elevation or mountain vibrations.

The project was recently inspected and after 2 years, no signs of delamination, abrasion or cracking were noted. The previous cracks remained sealed and have not reappeared- even being in such an extreme environment.

[CASE STUDY TITLE]

Degraded Hoosier Pass Water Transport Flume Relined with Structure Guard® Epoxy To Address Extreme Conditions and Long-term Protection



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