

Arrowhead Road Burn-Area Rehabilitation — Clearlake, California



Project:

Arrowhead Road Burn-Area Rehabilitation —
Clearlake, California

Location:

Arrowhead Rd, Clearlake, Lake County, California

Date:

2026

Contractor / Producer:

Lamon Construction Company

Surface Tech Product:

ACE XP™ 19mm Aramid Fiber (Single Dose)

What We Did

As part of the burn-area rehabilitation program on Arrowhead Road in Clearlake, Lamon Construction placed 1,200 tons of ACE XP aramid fiber-reinforced asphalt in a single day — a new-build placement backed by a documented mix design and independent lab verification through BATT Labs.

- **Reinforced Mix:** A ½" HMA (Mix 350) with 15% RAP and ACE XP 19mm aramid fibers at a single dose, produced at Teichert's Woodland plant — 27% 3/8" rock, 45% 1/4" minus, 18% 1/2" rock, 4.6% ASP-1 binder.
- **Verified Fiber Blending:** Plant mixing cycles ran 2 seconds dry / 32 seconds wet to fully disperse the fiber, with the Defender dosing unit metering ACE XP into every batch.
- **Independent Lab Testing:** Production samples shipped same-day to BATT Labs for independent performance verification of the fiber-reinforced mix.

Surface Tech Contact:

806 S. Coast Highway 101, Encinitas, CA 92024

+1-619-880-0265

info@surface-tech.com

www.surface-tech.com

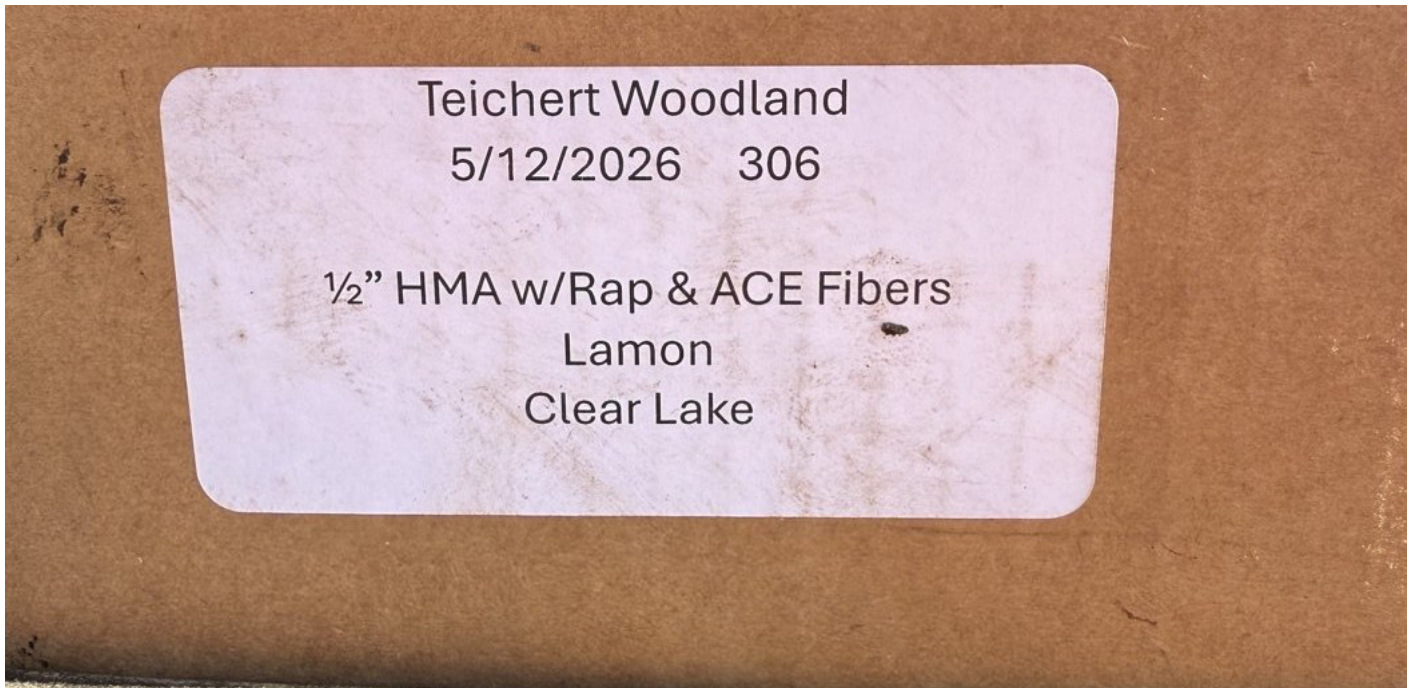


Project Scope & Objectives

Rebuilding infrastructure in a burn-recovery area demands pavement that lasts — communities rebuilding from wildfire can't absorb early maintenance cycles. The Arrowhead Road project paired Teichert Woodland's production with ACE XP fiber reinforcement in a 15% RAP mix, delivering 1,200 tons of new pavement with full mix-design documentation and independent laboratory verification through BATT Labs.

Challenges Overcome

Fiber-reinforced paving succeeds or fails on dispersion — fibers must distribute uniformly through every ton. The project's documented mixing protocol (2-second dry mix, 32-second wet mix) and Defender-metered dosing ensured consistent fiber distribution across the full 1,200-ton run, with same-day production samples sent to BATT Labs to independently verify the reinforced mix's performance.



Production sample bound for BATT Labs — Teichert Woodland Mix 350 with ACE XP fibers, May 12, 2026

Surface Tech Contact:

806 S. Coast Highway 101, Encinitas, CA 92024

+1-619-880-0265

info@surface-tech.com

www.surface-tech.com



Economic & Environmental Advantages

- **Built to Last in Recovery Areas:** Aramid reinforcement extends pavement life where rebuilding communities need infrastructure that won't demand early repairs.
- **Documented Quality Assurance:** Full mix-design documentation, controlled mixing cycles, and independent BATT Labs testing back every ton placed.
- **RAP Compatibility:** ACE XP performed in a 15% RAP mix, supporting recycled-content goals without sacrificing performance.
- **Single-Day Delivery:** 1,200 tons produced, hauled, and placed in one day, minimizing disruption to the recovering neighborhood.
- **No Process Changes:** Defender-metered single-dose addition ran through Teichert Woodland's standard production.
- **Sustainable Pavement Design:** Longer service life plus recycled content reduces material consumption and future construction impacts.

Client Feedback and Results

The single-day, 1,200-ton placement delivered a fully documented, independently sampled fiber-reinforced pavement for the Arrowhead Road corridor — pairing burn-area recovery infrastructure with the QA rigor of lab-verified mix performance.

Surface Tech Contact:

806 S. Coast Highway 101, Encinitas, CA 92024

+1-619-880-0265

info@surface-tech.com

www.surface-tech.com



Project Photos

Plant and QA documentation from JOB-2026-845 — 1,200 tons of ACE XP 19mm-reinforced Mix 350, May 12, 2026.



The Defender dosing unit charged with ACE XP aramid fibers at Teichert Woodland.



Labeled production sample — 1/2" HMA with RAP and ACE fibers, shipped to BATT Labs for verification.

Surface Tech Contact:

806 S. Coast Highway 101, Encinitas, CA 92024

+1-619-880-0265

info@surface-tech.com

www.surface-tech.com



Case Study



ACE XP fibers feeding through the Defender's metering bowl into production.



Fiber metering in progress – consistent single-dose delivery batch after batch.

Surface Tech Contact:

806 S. Coast Highway 101, Encinitas, CA 92024

+1-619-880-0265

info@surface-tech.com

www.surface-tech.com



Case Study



Fiber-reinforced mix sample — uniform dispersion through the ½" HMA.

Surface Tech Contact:

806 S. Coast Highway 101, Encinitas, CA 92024

+1-619-880-0265

info@surface-tech.com

www.surface-tech.com

