

Lincoln Way Industrial New Build — Garden Grove, California



Project:

Lincoln Way Industrial New Build — Garden Grove, California

Location:

Lincoln Way, Garden Grove, Orange County, California

Date:

2026

Contractor / Producer:

El Camino Asphalt Paving

Surface Tech Product:

ACE XP™ 19mm Aramid Fiber (Single Dose)

What We Did

In a single day, El Camino Asphalt Paving placed 340 tons of ACE XP aramid fiber-reinforced asphalt on Lincoln Way in Garden Grove — a new-build street serving new industrial development, with fibers dosed directly into production at Vulcan Materials' Santa Ana plant using Surface Tech's TITAN dosing system.

- **Reinforced Mix:** An aramid fiber-reinforced mix with ACE XP 19mm fibers at a single dose, produced at Vulcan Materials' Santa Ana plant.
- **TITAN Plant Integration:** Surface Tech's TITAN dosing unit metered fibers directly into plant production — automated, accurate, and invisible to plant workflow.
- **One-Day New Build:** 340 tons placed in a single-day operation on the roughly 0.12-mile industrial street, from prepped subgrade to finished mat.

Surface Tech Contact:

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Project Scope & Objectives

Lincoln Way serves new industrial development in Garden Grove — the kind of street that will carry a steady diet of trucks from day one. The project paired Vulcan Santa Ana's production with ACE XP 19mm fiber reinforcement dosed through Surface Tech's TITAN system, delivering a new-build pavement engineered for heavy commercial traffic while completing placement in a single working day.

Challenges Overcome

New industrial streets face heavy truck traffic immediately, with no break-in period — and a one-day paving window left no room for production hiccups. The TITAN unit's automated dosing at Vulcan Santa Ana kept fiber delivery precise at full plant production rates, and El Camino's crew took the mix from prepped grade to finished, compacted mat within the single-day schedule.



Surface Tech's TITAN dosing unit metering ACE XP fibers into production at Vulcan Materials' Santa Ana plant

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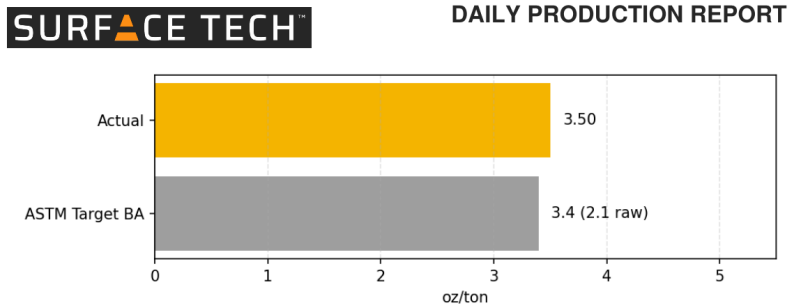
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Dosing Verification — Daily Production Report

Every ACE XP placement is backed by documented dosing verification. The Daily Production Report for March 13, 2026, confirms an actual dosage rate of 3.50 oz/ton against the 3.4 oz/ton ASTM target — 74.46 lbs. of ACE XP 19mm fiber (Lot 032825) dosed into production at Vulcan Materials' Santa Ana plant.



Date: 2026-03-13
Work Order No.:
Project Name: El Camino Asphalt Paving
Project Location: 7390 Lincoln Way, Garden Grove CA 92841
Plant: Vulcan
Plant Location: Santa Ana
Plant Rates:
Ace Fiber Lot No(s): 032825
Box No(s):
Product: ACEXP 19mm
Total Fibers Dosed (lbs): 74.46
Actual Dosage Rate (oz/ton): 3.50

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Surface Tech Daily Production Report — JOB-2026-828, March 13, 2026 (from the TRKR job record)

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Economic & Environmental Advantages

- **Truck-Ready from Day One:** Aramid fibers add three-dimensional tensile reinforcement that resists the rutting and fatigue cracking driven by heavy industrial traffic.
- **Automated Dosing Accuracy:** The TITAN system metered fibers into production automatically — consistent dosing with zero plant workflow changes.
- **Single-Day Delivery:** 340 tons produced, placed, and compacted in one day, minimizing disruption to the surrounding development.
- **No Paving Changes:** The reinforced mix ran through El Camino Asphalt Paving's conventional paving and compaction equipment.
- **Lower Life-Cycle Costs:** Fiber reinforcement extends pavement life and reduces future maintenance on a street built for heavy use.
- **Sustainable Pavement Design:** A longer-lasting new build means fewer future maintenance cycles, less material consumption, and reduced construction emissions.

Client Feedback and Results

The one-day placement delivered a uniform, well-compacted reinforced mat across the new street — demonstrating the TITAN dosing system running seamlessly at a Vulcan Materials plant and reinforcing the growing ACE XP program across Vulcan's Southern California network.

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Project Photos

Field documentation from JOB-2026-828 — 340 tons of ACE XP 19mm-reinforced mix placed March 13, 2026.



Surface Tech's TITAN dosing system installed at Vulcan Materials' Santa Ana plant.



Compaction of the fresh ACE XP-reinforced mat along the new industrial frontage.

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Case Study



The new reinforced lane taking shape alongside the prepped subgrade.



Roller working the fiber-reinforced mat — fresh lift against the milled grade.

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Case Study



Crew and haul truck staging on the prepared subgrade ahead of paving.



The prepped Lincoln Way alignment ready for the reinforced placement.

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Case Study



New ACE XP-reinforced pavement fronting the industrial development.



The graded corridor before paving — curb to curb preparation complete.



Finished reinforced mat placed in the single-day operation.

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