HEXION ARMORBUILT™ WILDFIRE SHIELD

Guard the Grid

Ensure grid stability in the face of wildfires with the Hexion ArmorBuilt Wildfire Shield — a durable, burn-prevention safeguard for wood utility poles.

Durable, Affordable and Sustainable

For more than a century, Hexion has delivered sustainable product innovations and technologies that enhance everyday life. Merging fire science and smart materials, Hexion's ArmorBuilt covering instantly swells and seals around the pole to create a protective and effective heat insulation barrier. This helps you extend the lifespan of wood utility poles, reduce repair costs and protect more people.

In 2020, 17,700 structures[1] were lost to wildfires, costing up to $13B[2] in damages.

The cost to repair damage from a fire can be as high as $40,000 per pole.[3]

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Responsible Chemistry

Test picture

Pole without ArmorBuilt

Pole after it was wrapped with ArmorBuilt

Heat-Triggered Protection

ArmorBuilt leverages Hexion's smart materials so that it swiftly responds to heat to form a protective barrier, dramatically reducing the risk of damage.

- Activates within 20 seconds when in contact with wildfire
- Swells around and insulates the pole
- Prevents burning, strength loss and pole failure
- Withstands 12-foot flames with temperatures of up to 2,100°F[4]

A Durable Barrier

Designed with superior durability and self-healing properties, ArmorBuilt can withstand weather elements as well as routine utility inspections like boring tests without compromising its protective performance.

- Designed with superior durability
- Self-heals and seals cuts and holes during a fire
- UV resistance backed by Quantitative Ultra-Violet (QUV) testing[5]

Designed for Line Workers

Safe and easy to apply, climb, cut and repair, ArmorBuilt accommodates regular utility pole maintenance tasks and does not require special handling or installation practices — saving time in the field.

- Easy to secure to new or existing poles
- Can be climbed and cut without compromise
- Holds up to 490 pounds when double-wrapped[6]
- Has the same electrical insulating properties as a wood pole without protective coverings
- Passed wooden power-pole-handling testing

Sustainable Security

Designed to extend the lifespan of wood utility poles by protecting them from the effects of wildfire and rot, ArmorBuilt promotes a long-lasting and sustainably sourced power infrastructure.

- Extends the lifespan of wood utility poles
- Promotes a renewably sourced infrastructure
- Does not release harmful VOCs or chemicals
- Poles can be re-secured with new material post-fire to ensure future fire protection

Puts People First

By protecting poles so they stay upright, ArmorBuilt helps reduce the risk of fire spreading — helping prevent loss of life.

- Helps reduce risk of fires encroaching on towns and cities
- Helps maintain open ingress and egress routes for first responders and evacuees

A Cost-Effective Safeguard

Helping to drastically minimize pole replacements and associated infrastructure repair costs, ArmorBuilt is a cost-effective wildfire protection solution.

- Helps prevent millions in damages
- Minimizes pole replacement and repair
- Has a built-in sustainable U.S. supply and scalability
- Produced on an ISO 9001:2015-certified site

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Start Building Your Wildfire Defense

Put the power of ArmorBuilt protection to work for you. Contact an ArmorBuilt representative today at **Hexion.com.**

[1]National Interagency Fire Center's Incident Year-to-Date Report as of November 9, 2020.

[2]The costs of insured losses from fires through November 2020 in California, Oregon, Washington and Colorado as reported by Risk Management Solutions (RMS).

[3]Exacter and Cigre 2019 Pole Fire Survey and Research report.

[4]Third-party-certified Wildfire Simulation Testing (SWrI/EDM) of wood poles secured with one and two layers of protective wrap revealed no char or strength loss when engulfed in 12-foot swirling, open flame at temperatures of 2,100°F for a duration of 3 minutes.

[5]Over 2.5 years of continuous Quantitative Ultra-Violet (QUV) testing, correlating to 30+ years of North American UV exposure, have demonstrated ArmorBuilt's ability to withstand the damaging effects of long-term UV light exposure. QUV refers to Q-Lab's line of weathering test machines. The method used is ASTM G 154, Cycle 7, which continuously repeats a cycle consisting of 8-hour UV exposure at 60°C (140°F), 15 minutes of water spray and 3.75 hours of condensation (humidity) at 50°C (122°F). This test is widely used in the coatings and plastics industries.

[6]PG&E climbing tests revealed that ArmorBuilt can hold up to 490 pounds when double-wrapped around wood utility poles.

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