



ArmorBuilt® Wood Pole Wildfire Shield

Distribution and transmission lines are often located in areas that are especially susceptible to fires. ArmorBuilt Wildfire Shield is a heavy-duty, fire-retardant mesh designed to protect wood poles from fire damage. The ArmorBuilt mesh effectively protects all wood pole species and treatment combinations, including CCA treated pine poles. The unique intumescent coating fuses with the fiberglass mesh to provide excellent charring and flame resistance by forming a protective layer around the wood pole in the presence of heat and flame.



Key Features of ArmorBuilt

- ✓ **Versatile** – ArmorBuilt mesh can be installed as a single or double layer to address variable types of fuel loading situations. In addition, manufactured rolls of ArmorBuilt are 4 feet in height which allows for quick application and maximum coverage up the pole with each successive wrap.
- ✓ **Durable** – When properly applied, ArmorBuilt Fire Shield has an expected service life of more than 40 years, based on the product demonstrating excellent weathering characteristics and performance after accelerated QUV testing (ASTM G154) in addition to early testing under the most arduous physical outdoor exposure test outlined in Canada (CSA O112 BDF).
- ✓ **Ease of Installation** – ArmorBuilt mesh can be applied quickly by a two-person crew using common, corrosion-resistant fasteners. The mesh is easily cut using a utility knife rather than wire snips or cutters. Application requires minimal PPE for applicators, and the ready-to-use mesh can be quickly installed under imminent wildfire situations, when safe to do so.
- ✓ **Safety** – Chemical leaching tests showed no environmentally harmful compounds in the intumescent char following exposure to fire. Testing also demonstrated that the product alone can safely support the weight of a line worker climbing a pole with the product installed.

Features continued on back.

- ✓ **Conductivity** – Electrical resistance testing commissioned by the manufacturer concludes that the ArmorBuilt mesh, when applied to a wood pole, conducts/has the resistance similar to an unwrapped pole. Therefore, the product does not add additional risk to the pole. In addition, the fiberglass support mesh is a very good thermal insulator in high-heat exposures.
- ✓ **Breathable Coating** – Open fiberglass mesh prevents moisture entrapment and allows the pole to achieve moisture equilibrium with the environment. ArmorBuilt mesh does not contribute to wood pole decay.
- ✓ **Serviceable** – Once applied, the mesh does not interfere with the serviceability of the pole. The applied product is gaffable and borable so the pole can be inspected, remedially treated, or repaired. ArmorBuilt mesh is easily repaired in the field.
- ✓ **Extensively Tested** – ArmorBuilt has been fire-tested in a variety of wildfire simulations and to proposed ASTM standards, all demonstrating excellent results.

Application of the ArmorBuilt Wildfire Mesh

With ArmorBuilt, the intumescent coating has been pre-applied to the fiberglass mesh in convenient roll sizes. It arrives fully cured and is ready for use in all situations.

ArmorBuilt can be applied by trained Osmose® personnel or purchased for installation by utility crews. To further reduce costs, a crew inspecting pole conditions can include ArmorBuilt fire protection as part of a formal inspection service.

ArmorBuilt mesh is quickly and easily applied using common, corrosion-resistant fasteners and can be cut using a utility knife. Product can be fitted around pole attachments such as risers, ground wire molding, and trusses.

The ArmorBuilt mesh poses minimal risk to the applicator during installation and to the environment during its service life.

For more information about ArmorBuilt or product installation with Asset Fire Protection Solutions, visit osmose.com/products-fire-protection or email products@osmose.com.

