Distribution and transmission lines are often located in areas that are especially susceptible to wildfires. Osmose Fire-Guard® products are heavy-duty fire retardants designed to protect all species and treatments of wood utility poles from fire damage. The latex-based formula provides excellent flame resistance and can withstand years of outdoor weathering. Fire-Guard is available in spray-on and brush-on formulas, as well as a ready-to-use wrap.

**BENEFITS OF FIRE-GUARD**

- **Flexibility** - Fire-Guard applications have flexibility to address many types of fuel loading situations.
- **Cost-effective** - Fire-Guard helps reduce the cost of post fire pole repairs and replacements.
- **Long-lasting** - When applied properly, Fire-Guard products can withstand years of outdoor weathering and multiple burn incidents, depending on intensity and duration of the burn.
- **Easy to apply and clean up** - Fire-Guard Wrap can be applied quickly by a single worker. Fire-Guard brush-on and spray-on formulas are water-based. They dry quickly and tools can be cleaned up with soap and water.
- **Safe** - Fire-Guard contains no solvents, plasticizers, or asbestos. It has near zero VOCs and requires no specialized training and only minimal PPE.
- **Breathable coating** - Fire-Guard’s latex-based formula is breathable. Unlike other alternative fire coatings, it will not encapsulate moisture and promote decay.
- **Serviceable** - Once applied, Fire-Guard does not interfere with the serviceability of the pole. The coating is gaffable and borable so the pole can be inspected, remediably treated, or repaired.
- **Extensively tested** - Fire-Guard has been independently fire tested to proposed ASTM standards and has completed QUV testing consisting of 8,000 hours of exposure to EN927. Fire-Guard products have a dielectric strength of 178 V/mil, which is similar to porcelain using test method ASTM D149.
Application of Fire-Guard Coating

Fire-Guard coating is typically applied to poles with a high pressure airless sprayer. A brush-on formula is also available for full applications or where repairs are needed.

A 1/8” coating is recommended from ground level to a minimum height of two to three feet, depending on brush height. An additional two to three feet of vertical pole surface may be protected with a 1/16” - 1/8” coating.

- Fire-Guard should be applied to a clean surface. Remove loose surface debris and excess preservative material.*
- Remove growth from base of pole. If desired, apply edging paper at the height required (at least three feet above growth is recommended).
- Prepare spraying equipment and place pump intake into Fire-Guard pail. Do not thin Fire-Guard; use the material as supplied. If frozen, thaw completely and mix before use.
- Fill any large checks with Fire-Guard. Spray or brush evenly to the required thickness.
- Remove paper from top of the application and allow 24 hours for full drying. Clean pump and gun by spraying a minimum of five gallons of water through the system.

*Bleeding poles may require a fiberglass substrate for the best long-term adhesion.

Application of Fire-Guard Wrap

With Fire-Guard Wrap, the Fire-Guard coating has been pre-applied to a fiberglass substrate. Fire-Guard Wrap arrives fully cured and ready to use in a uniform 1/8” thickness per sheet.

The ready-to-use wrap can easily and quickly be applied by a single worker, reducing labor costs.

- Fire-Guard Wrap should be applied to a clean surface. Remove loose surface debris and excess preservative material.
- Remove excess vegetation at pole base, and excavate 2” of dirt from around the pole.
- Apply wrap tightly from 1” - 2” below ground line to at least two feet above surrounding vegetation (typical minimum application height is 36” - 54” or higher). Allow approximately 2” overlap on the vertical seam. Product should be installed from the top down so that the lower piece overlaps the upper piece by 2”. Vertical seams should be off-set.
- Secure exposed vertical and horizontal seams with 1 1/2” or longer galvanized, aluminum, or stainless steel roofing nails every 4” to 6”.

Ordering Information

Fire-Guard products can be applied by Osmose personnel or purchased for application by utility crews.

- Brush-on and spray-on formulas are sold in five-gallon pails.
- Fire-Guard Wrap is sold in sheets for distribution and transmission-sized poles.

For more information on Fire-Guard or to place an order, call 770.632.6700 opt. 3 or email products@osmose.com.

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