



FIRE SHELL® UTILITY GUARD

Technical Data Sheet

FIRE SHELL UTILITY GUARD is a latex intumescent coating designed for use on utility poles and wooden structures in forest fire prone areas. The product has been formulated to allow for single coat high-build application. Structures that traditionally perish during forest fires can remain intact with the use of FireShell Utility Guard.

Item #	Description
SS1481-5	FireShell Utility Guard: Gray
SS1474-5	FireShell Utility Guard: Charcoal Black
SS1475-5	FireShell Utility Guard: Brown
SS1485-5	FireShell Utility Guard: Forest Green

APPLICATION INFORMATION

FireShell Utility Guard can be applied with airless spray equipment. Areas requiring special detail or touch up can be brushed or rolled. When using airless spray equipment ensure the equipment has a volume output not less than 0.74gpm (gallons per minute) and an operating pressure of 3300 psi. Remove all filters from spray equipment expect for rock filter on pickup tube.

To ensure proper pressure and delivery to the spray gun use the following rules for hose diameter & length:

- Min. 3/8" ID up to 75'
- Min 1/2" ID up to 200'
- Min 3/4" ID greater than 200'
- Min 3/8" ID & Max 6' L for whip hose

Always use larger diameter hose sections nearest the pump. We recommend using a Silver Plus Type Texture gun with a Graco Reverse-A-Clean (RAC) X gun tip with no internal diffuser and an orifice size of .521 - .525.

ALWAYS USE EQUIPMENT AND COMPONENTS WITH THE PROPER PRESSURE AND MATERIAL DELIVERY RATINGS THAT ARE IN GOOD WORKING ORDER.

SURFACE PREP

Warning! If you scrape, sand, or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323) or log on to www.epa.gov/lead.

Surfaces to be coated must be free of dust, mildew, mold, dirt, grease, loose paint, oil, glue size, calamine, wax, soap and other surface contamination. Patch irregularities with vinyl patching paste or an appropriate patching compound. FireShell Utility Guard is self-priming over lumber and sheet rock.

APPLICATION TOOLS

Apply FireShell Utility Guard with an airless sprayer.

PRODUCT APPLICATION

FireShell Utility Guard is supplied ready to use. Apply one coat of FireShell Utility Guard and ensure the finished surface is properly sealed. To ensure that the finished surface is properly sealed, two-coats may be required on some porous surfaces.

COVERAGE

50-100 ft²/gal

DRYING TIME @ 70°F 50% R.H

To Touch: 1 hour
Recoat: 4 hours

LIFE EXPECTANCY

Products life expectancy is greater than 5 years when exposed to standard environmental conditions.

CLEANUP

Clean tools and drippings with warm soapy water before FireShell Utility Guard dries. Dispose of all waste according to all existing local, state and federal regulations.

PRECAUTIONS

Store in a dry place at temperatures between 40°F (4.5°C) and 90°F. (32°C). Stir thoroughly. Do not mix with any other coatings, solvents or colors in oil. Do not apply when air or surface temperature is below 40°F, or when drying conditions are poor. Make sure surfaces are clean and dry before product application. Use adequate ventilation during application. When applying with a sprayer, wear a NIOSH-approved respirator with any R, P, N or HE filter. For interior and exterior use.

KEEP OUT OF REACH OF CHILDREN.

Do not take internally.
Close container after each use.
Keep from freezing.
Store between 40°F (4.5°C) and 90°F. (32°C)
24 HOUR EMERGENCY CHEMTEL: 800.255.3924

PROPERTIES

PRODUCT SPECIFICATIONS

Solids by Weight ± 2%	71.00%
Solids by Volume ± 2%	58.00%
Viscosity at 70°F	120–125 Kreb Units
Specular Gloss	6° ± 1 @ 60°
pH	9.0–9.5
Flash Point	Non-combustible
Shelf Life	36 months min.
VOC	1.0 g/L (calculated as per EPA) 1.6 g/L (calculated as per SCAQMD)

COVERAGE

Coverage Rate 50–100 ft²/gal
(applied at 10–20mils DFT)

DRYING TIMES (@ 70 - 77°F , 50% R.H.)

To Touch 1 hour
To Recoat 4 hours

Min. Application Temp. 50°F (10°C)

AVAILABLE PACKAGE SIZES

Size Description 5 gallon plastic pails

Weight Per Gallon ± .5 lbs 12.27 lbs/gal

PRODUCT TESTING

ASTM E-84: Class A Rated

Substrate:	7/16" OSB
Flame Spread	10
Smoke Developed	5
ASTM D2768	10 Flame Spread (Class A)

ENA Pole Test

Substrate	Douglas Fir
Application Thickness	34mils DFT
Weathering	ASTM D 2898: Method C

ENA Pole Test Results: Excellent

Pass/Fail Criteria	<0.20" = Excellent Rating for Hardwood
Average Char Depth	0.05"
ASTM D5590	0 - No Growth

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