



TECHNICAL DATA SHEET ShieldAll 6050

Description

ShieldAll 6050 is a water-based intumescent coating for use over combustible construction materials. It forms an expanded protective char in fire that greatly inhibits flame spread and smoke development. It can allow the use of combustible construction materials where a Class B rating by ASTM E-84 is required by building codes.

ShieldAll 6050 is avoided by termites and other pests. They will not eat through it or tunnel under it when applied over wood surfaces. It has long-term microbial resistance properties which will protect the surface from the growth of fungi, mold, or odor-producing bacteria.

ShieldAll 6050 contains no volatile organic components, is low odor, and non-hazardous to apply and use. It uses a synergistic blend of natural and non-hazardous man-made components to obtain its superior protective qualities.

ShieldAll 6050 provides a water-resistant film with excellent adhesion to wood, drywall, concrete, metal, and some plastics. It is flexible and will not chip, crack, flake, or blister.

ShieldAll 6050 meets NFPA 90A & 90B 25/50 requirements when tested by ASTM E-84 over non-combustible surfaces.

Typical Properties

Color:	Beige
Consistency:	Brush, roll, or spray
Weight per gallon:	11.5-12.0 lbs.
Total Solids by Weight:	57-59%
Viscosity range:	5000-10,000 cps
Coverage Rate:	80-120 ft ² /gal. (Subject to the smoothness and porosity of the material being coated.)

Drying Time:	(Subject to temperature, humidity and surface moisture content.)
Set to touch:	1-2 hours
Dry through:	24-48 hours

Wet Flammability:	No Flash to boiling
ASTM D93	212°F

Surface Burning Characteristics (ASTM E-84)
Tested at a coverage rate of 100 ft²/gal applied over 7/16 inch Oriented Strand Board

Flame Spread	65
Smoke Developed:	125

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APPLICATION GUIDE

ShieldAll 6050

Material Preparation

Apply only to clean, dry surfaces. Keep container closed when not in use. DO NOT THIN.

Surface Preparation

All surfaces should be thoroughly cleaned to remove all mold, dust, and loose particles. All weathered wood on exterior surfaces must be primed with a water-based primer before application of **ShieldAll 6050**.

Application

Always ensure adequate ventilation. Caulk all joint gaps 1/8" wide or greater before coating application. Apply **ShieldAll 6050** to all surfaces by brush, roller, or airless spray at a rate of approximately 80-120 ft²/gal. Under normal circumstances an application can be completed in one coat, but for extremely porous or irregular surfaces a second coat may be required. Ensure the finished coating is well sealed. For airless spray application use an electric 30:1 unit with a 0.021-0.025 fluid tip and 800-900psi gun atomizing pressure.

Clean-Up

Use fresh water to clean brushes and paint rollers before product dries. Flush spray equipment with a cleaning solution of ½ cup pine oil cleanser, ½ sudsy ammonia, and 4 gallons of water. Flush until material exiting pump shows no evidence of **ShieldAll 6050**. Dry product may be removed with solvents such as chlorinated solvents, undiluted pine oil, or citrus-based cleansers.

Limitations

Store and apply between 40F and 105F. Protect from freezing.
Product shelf life is approximately 1 year when stored between 40°F and 105°F.
For exterior surfaces exposed to direct sunlight top coat with a high quality exterior latex paint after 48 hours (minimum) dry time.
Keep out of reach of children.

U.S. Patent #6881247, 04/19/2005

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