



Full Defense™

Fungicidal Protective Coating (40-25)

Product Data Sheet

PROPERTIES

COLOR:

White

APPLICATION CONSISTENCY:

Brush, spray, or roller

AVERAGE WEIGHT/U.S. GALLON (ASTM D1475):

11.4 lbs./gallon (1.37 kg/l)

AVERAGE NON-VOLATILE (ASTM D2369):

51% by weight (32% by volume)

COVERAGE RANGE:

Wet coverage rates shown below are minimum gallonages required (Subject to the nature of material being coated.):

Wood, Drywall, OSB 300 ft²/gal (0.14 l/m²)

DRYING TIME (ASTM D1640):

Set to Touch: 40 minutes at ambient

Dry Through: 2¹/₂ hours at ambient

High humidity or low temperatures retard drying.

SERVICE TEMPERATURE LIMITS (FSTM 70):

(Temperature at coated surface)

-20°F to 180°F (-29°C to 82°C)

WATER VAPOR PERMEANCE (ASTM F1249):

Negligible effect on substrate drying rate.

> 42 perms at 4 mils dry film thickness. Tested at 100°F (38°C) and 90% RH.

SAFETY:

Wet Flammability (ASTM D92)

No flash to boiling, 210°F (99°C)

SURFACE BURNING CHARACTERISTICS (ASTM E84):

Flame Spread: 5

Smoke Developed: 0

Tested at a coverage rate of 300 sq.ft./gallon (7.4 m²/l). Applied to inorganic reinforced cement board.

The flame spread may vary at different product thicknesses and/or when applied over other surfaces.

ATTRIBUTES

Foster® Full Defense™ Fungicidal Protective Coating (40-25)

kills residual mold and mildew and protects the surface of unfinished wood, drywall, oriented strand board, metal, masonry and other building materials from fungal growth.

Full Defense is an EPA registered, low odor, quick setting water-based coating specifically formulated for long-term fungicidal activity. It will inhibit the growth and spread of odor-causing bacteria, mold and mildew on its surface in residential, institutional and industrial buildings.

Full Defense provides a cost effective decorative finish. It can be used on walls, ceilings, pipes, wall cavities, crawl spaces, attics, basements and wherever effective mold controls are essential. It is specifically designed for field application to painted and un-painted wood, metal, masonry and concrete block and other building materials.

Full Defense meets requirements for LEED® EQ Credit 4.2, low-emitting materials: paints and coatings. VOC: 40 g/l, less water and exempt solvents.

Full Defense contains no asbestos, lead, mercury, or mercury compounds.

LIMITATIONS:

Store between 40°F (4°C) and 100°F (38°C). Protect from freezing. Apply between 50°F (10°C) and 100°F (38°C) with less than 70% RH air conditions maintained until dry. Water-based products may corrode carbon steel spray equipment. Corrosion resistant pumps and fittings are suggested.

DO NOT DILUTE.**STIR WELL BEFORE USE.**

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APPLICATION GUIDE FOR FOSTER® FULL DEFENSE™ (40-25)

MATERIAL PREPARATION: DO NOT THIN. Keep container closed when not in use.

SURFACE PREPARATION: Apply only to surfaces free of all loose dirt, grease, mold or other contaminants that may interfere with the adhesion of the coating to the substrate.

Masonry, brick, plaster, and cement based surfaces: On mold infested surfaces, aggressively scrape the surface, then wire brush to produce a firm, sound substrate. Clean the intended surface of any contaminants that may interfere with the adhesion of the coating and allow to dry completely before proceeding. Prime all unpainted brick, plaster and cement based surfaces with a masonry sealer or primer if dusty. A block-filler may be used to patch and smooth porous surfaces.

Painted Surfaces: Wire brush painted surfaces removing all flaking, loose, or chalking material. Sand all glossy surfaces (alkyl, oil, epoxy based coatings, etc.) to roughen entire area. Alternately a primer may be applied to glossy surfaces to improve adhesion; adequate adhesion should be confirmed prior to completing application. Clean the intended surface of any contaminants that may interfere with the adhesion of the coating and allow to dry completely before proceeding.

Metal Surfaces: Remove any dust, grease, oil, or contaminants. Abrade all surfaces to remove all surface rust. Clean the intended surface of any contaminants that may interfere with the adhesion of the coating and allow to dry completely before proceeding. All rusted metal surfaces must be primed before application of Foster Full Defense. Foster Full Defense may be applied directly onto cleaned unrusted galvanized surfaces.

Unpainted Wood and Drywall: Remove all dirt, grease, oil, loose mold or mildew or other contaminants. Remove all loose substrate materials, unnatural protrusions, splintered materials, etc. to a sound surface. In wall cavities or unexposed surfaces Foster Full Defense may be applied directly without the need for primer. On exposed surfaces where staining or discoloration of the coating would be objectionable prime with a stain blocking primer.

APPLICATION: Always ensure adequate ventilation. Area should be under negative air pressure during and after application to allow for exhausting of odors. Apply Full Defense to all surfaces by brush or airless spray at the required rate (see front page). Brushing will require two coats applied at 90° to each other. Under normal circumstances a spray application can be completed in one coat, but for extremely porous or irregular surfaces, a second coat may be required. Full Defense has been designed with an average viscosity range of between 4,000 and 6,000 cps enabling application by virtually any type of airless spray equipment. Use 0.015" to 0.025" spray tips depending on the pump specifications and the desired application rate. Ensure that the finished surface is smooth and well sealed.

Note: Continue to circulate fresh dry air throughout the area during the application and for as long after the application as is possible. Circulated air should be exhausted outside the building. If air must be exhausted inside the building, filtration through a charcoal medium is suggested. This circulation and filtration helps to reduce the dry time of the coating and reduce latex type odors that could possibly migrate from the application area. Be sure exhausted air is odorless before venting into occupied spaces.

MAINTENANCE: Normal cleaning procedure must be maintained to remove accumulated airborne particles. Where accessible the coating may be washed down periodically to remove any accumulation of contaminants with water and a mild detergent or a biocidal wash. If coating becomes damaged clean surface and re-apply coating.

CLEAN-UP: Use fresh water to clean brushes before product dries. While the product is still wet, flush the equipment with a solution comprised of 1/2 cup sudsy ammonia, 1/2 cup pine oil cleanser, and 4 gallons of cool water. Flush until material exiting pump shows no evidence of Full Defense. Dry product may be removed with chlorinated solvents (non-flammable) or xylol (flammable).

HAZARD STATEMENT:

CAUTION: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin or eyes or clothing. Wash thoroughly with soap and water after handling. Wear safety glasses to reduce the potential for eye contact; chemical safety goggles are appropriate if product is spray applied. Have eyewashes available where eye contact can occur. Prolonged skin contact may cause irritation. Applicators and other handlers must wear long-sleeve shirt and long pants, chemical-resistant gloves, such as Barrier Laminate, Viton, or Nitrile or Neoprene rubber, shoes plus socks. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove personal protection equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible wash thoroughly. Acute overexposure to vapors may cause dizziness, headache, nausea and unconsciousness. Since emptied containers retain product residue, follow label warnings even after container is empty.



CUSTOMER SERVICE: 800-231-9541

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ADEQUATE TESTS: The information contained herein we believe is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that adequate tests be performed by you to determine if this product meets all of your requirements. The warranted shelf life of our products is six months from date of shipment to the original purchaser.

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Consult Material Safety Data Sheet and container label for further information.**