



# 40-20™ Fungicidal Protective Coating

## Product Data Sheet

### PROPERTIES

**COLOR:**

White

**APPLICATION CONSISTENCY:**

Brush or airless spray

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

11.9 lbs. (1.36 kg/l)

**AVERAGE NON-VOLATILE (ASTM D2369):**

58% by volume

**COVERAGE RANGE:**

Wet coverages shown are for smooth, non-porous surfaces. Porous or rough surfaces may require higher gallonage to obtain required thickness.

1.25 gal./100 sq. ft. (0.51 l/m<sup>2</sup>)

0.020 in. wet thickness (0.51 mm)

0.011 in. dry thickness (0.27 mm)

**DRYING TIME (ASTM D1640):**

Set to Touch: 4 hours

Dry Through: 16 hours

**WATER VAPOR PERMEANCE (ASTM F1249):**

Tested at 90% R.H. differential and 100°F (38°C) 6.0 perms at 0.011 in. (4.0 metric perms at 0.28mm)

**SERVICE TEMPERATURE LIMITS (FSTM 70):**

(Temperature at coated surface)

-20°F to 200°F (-29°C to 93°C)

**SAFETY:**

Wet Flammability (ASTM D3278)

No Flash to Boiling 210°F (99°C)

**SURFACE BURNING CHARACTERISTICS****(ASTM E 84):**

Flame Spread: 15

Smoke Developed: 5

Tested at a coverage rate of 80 square feet per gallon (1.96 m<sup>2</sup>/liter). Applied to inorganic reinforced cement board. The flame spread may vary at different product thicknesses and/or when applied over other surfaces.

Foster Fungicidal Protective Coating meets NFPA 90A and 90B 25/50 requirements

### ATTRIBUTES

**Foster® 40-20™ Fungicidal Protective Coating (40-20)** is a polyacrylate copolymer emulsion specifically formulated for long-term fungicidal activity, with no loss of activity on aging. It is formulated to effectively prevent the spread of molds and odor-causing bacteria on its surface. It provides a tough, elastic, decorative finish that allows for movement without splitting and creating lodging places for bacteria.

Foster 40-20 provides a cost effective decorative finish resistant to many industrial chemicals, together with long-lasting protection. It can be used on walls, ceilings, pipes, interior and exterior surfaces of HVAC duct systems, and wherever effective controls are essential.

Foster 40-20 guards against the re-growth and spread of odor-causing bacteria and molds on the surface of the coated HVAC system or its treated components only. As a result, the building occupants may enjoy a work space free of the odor problems often associated with contaminated HVAC duct systems.

Foster 40-20 meets requirements for LEED® EQ Credit 4.2, low-emitting materials: paints and coatings. VOC: 36 g/l, less water and exempt solvents.

**LIMITATIONS:**

Protect from freezing. Do not apply near food stuffs in unventilated areas. Always ensure adequate ventilation. Do not store or apply over 100°F (38°C) or below 40°F (4.4°C). Water-based products may corrode carbon steel spray equipment. Corrosion resistant pumps and fittings are suggested.

**DO NOT DILUTE.**

U.S. Patent No. 5,314,719  
EPA Registration No. 63836-1  
EPA Est. No. 63836-TX-001  
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**H.B. Fuller Construction Products Inc.**

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# APPLICATION GUIDE FOR FOSTER® 40-20™ Fungicidal Protective Coating

**MATERIAL PREPARATION:** DO NOT THIN. Keep container closed when not in use. Do not apply outdoors in damp or rainy weather.

## **SURFACE PREPARATION:**

**Unpainted brick, plaster, and cement based surfaces:** Apply only to clean, dry surfaces free of all dirt, grease, or impurities. On mold infested surfaces, aggressively scrape the surface, then wire brush to produce a firm, sound substrate. Wash the intended surface with a high quality biocidal wash solution following the instructions for its use, then rinse and allow to dry completely before proceeding. 40-20 may be applied directly without the need for primer. For improved adhesion to unpainted brick, plaster and cement based surfaces, prime with **Foster® 40-26™ Waterbase Primer** and fill gaps with **Foster® 40-16™ Block Filler**.

**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. Wash the intended surface with a high quality biocidal wash solution following the manufacturer's instructions for its use, then rinse and allow to dry thoroughly.

**Metal Surfaces:** Remove any dust, grease, oil, or contaminants. Abrade all surfaces to remove all surface rust. Wash the intended surface with high quality biocidal wash, then rinse and allow to dry thoroughly. Prime surface with Foster Waterbase Primer. Note: Galvanized surfaces should also be cleaned with a trisodium phosphate solution.

**Wooden Surfaces (unpainted):** Remove all dirt, grease, oil, or contaminants. Remove all loose substrate materials, unnatural protrusions, splintered materials, etc. to a sound surface. Apply a biocidal wash following the manufacturer's directions, then rinse and allow to dry thoroughly. 40-20 may be applied directly without the need for primer. On exposed surfaces where staining or discoloration of the coating would be objectionable, prime with Foster Waterbase Primer.

**HVAC Systems:** Galvanized surfaces need to be vacuumed or washed clean of all accumulated mold, dust and loose particles. Following complete cleaning procedures, sanitize the entire air duct surfaces with an approved sanitizer following manufacturer's directions. Ensure that all interior surfaces are thoroughly dry before applying **Foster® 40-20™**. All metal surfaces must be primed with Foster Waterbase Primer before application of 40-20. Lined air ducts must be lightly vacuum cleaned to remove all mold, dust, and loose particles, being careful not to tear or loosen the liner.

**APPLICATION:** Apply 40-20 to all surfaces by brush, airless spray at a rate of approximately 1.25 gal. per 100 square feet. Always ensure adequate ventilation. 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. Ensure that the finished surface is smooth and homogeneous. For airless spray application, use an electric 30:1 unit such with a 0.021-0.025 fluid tip and 800-900 psi atomizing pressure at the gun. For HVAC systems interior surfaces: Always ensure negative air pressure in the HVAC system during application. After one hour has elapsed from completion of application, circulate fresh air throughout the system to dry the coating. Be sure exhausted air is odorless before ventilating into occupied room areas.

**MAINTENANCE:** Wash down periodically with a high quality biocidal wash. Where severely contaminated, scrub clean using steam cleaning where permissible. Normal cleaning procedures must be maintained in HVAC systems to removed accumulated airborne particles.

**CLEAN-UP:** Use fresh water to clean brushes and equipment before product dries. 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. Prolonged skin contact may cause irritation. Acute overexposure to vapors may cause dizziness, headache, nausea, and unconsciousness. Since emptied containers may retain product residue, follow label warnings even after container is empty. Consult Material Safety Data Sheet for further information.



**CUSTOMER SERVICE: 800-231-9541**

**IMPORTANT:** H.B. Fuller Construction Products Inc. warrants that each of its products will be manufactured in accordance with the specifications in effect on the date of manufacture. WE MAKE NO OTHER WARRANTIES AND EXPRESSLY DISCLAIM ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a product fails to meet this limited warranty, purchaser's sole and exclusive remedy is replacement of the product or, at our option, refund of the purchase price. OUR ACCEPTANCE OF ANY ORDERS FOR THE PRODUCT IS EXPRESSLY CONDITIONAL UPON PURCHASER'S ASSENT TO THE TERMS ON THE APPLICABLE INVOICE.

**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.

**For professional use only. Keep out of reach of children.  
Consult Material Safety Data Sheet and container label for further information.**