



# 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. (1.43 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:**  
Set to Touch: 4 hours  
Dry Through: 16 hours

**WATER VAPOR PERMEANCE (TYPICAL AVERAGE):**  
ASTM F1249:  
6.0 perms at 0.011 in. film thickness (4.0 metric perms at 0.28 mm) tested at 90% RH differential and 100°F (38°C)

**SERVICE TEMPERATURE LIMITS:**  
Temperature at coated surface.  
-20°F to 200°F (-29°C to 93°C)

**WET FLAMMABILITY:**  
No flash to boiling: 210°F (99°C)

**SURFACE BURNING CHARACTERISTICS (ASTM E84):**  
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.

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#### ATTRIBUTES

**Foster® 40-20™ Fungicidal Protective Coating** 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® Fungicidal Protective Coating 40-20™** meets the requirements of:

- MAS Certified Green®
- California Dept. of Public Health Standard Method v1.2
- VOC Emissions and Content requirements to contribute to **LEED v4** EQ Credit: Low Emitting Materials – Paints and Coatings
- Collaborative for High Performance Schools EQ 7.1

VOC Content: 42 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.

EPA Registration No. 63836-1  
EPA Est. No. 63836-TX-001  
For professional use only

**H.B. Fuller Construction Products Inc.**

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

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons.

## 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 surface with a detergent and water solution, following the instructions for its use, then rinse and let dry completely before proceeding. 40-20™ may be applied directly without need for primer. For improved adhesion to unpainted brick, plaster and cement-based surfaces, prime with a water-based primer and fill gaps with 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 detergent and water solution following the manufacturer's instructions for its use, then rinse and allow to dry thoroughly.

**Metal surfaces:** Remove any dust, grease, oil or materials. Abrade all surfaces to remove all surface rust. Wash the intended surface with detergent and water, then rinse and allow to dry thoroughly. Where metal will be exposed or potential exists for the coating to be peeled from the surface, prime metal surfaces with a water-based, adhesion promoting primer.

**Wooden surfaces (unpainted):** Remove all dirt, grease, oil or materials. Remove all loose substrate materials, unnatural protrusions, splintered materials, etc. to a sound surface. Wash with detergent and water 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 a water-based, stain blocking primer.

**HVAC systems:** Follow use directions provided in the supplemental document "[Application of 40-20™ Fungicidal Protective Coating in HVAC Systems](#)" available at [www.fosterproducts.com](http://www.fosterproducts.com). Always follow industry accepted cleaning procedures. Galvanized surfaces need to be vacuumed or washed clean of all accumulated mold, dust and loose particles. Ensure that all interior surfaces are thoroughly dry before applying Foster® 40-20™. All metal surfaces must be primed with a water-based, adhesion promoting 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

Always ensure adequate ventilation. HVAC systems must be under negative air pressure during and after application to allow for exhausting of odors and rapid drying of the coating. Apply 40-20™ to all surfaces by brush, roller or airless spray at a rate of approximately 1.25 gal. per 100 sq. ft. Brushing or rolling 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 2,800 psi minimum pump with a 0.021 – 0.025 fluid tip.

## NOTE

Continue to circulate fresh dry air throughout the area during the application and for as long after the application as possible. Exhaust circulated air outside the building or occupied space. If air must be exhausted inside the building, circulate air through an air scrubbing filtration system with odor absorbing medium such as a charcoal medium. 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

Wash down periodically with mild detergent and water. Where severely contaminated, scrub clean using steam cleaning where permissible. Normal cleaning procedures must be maintained in HVAC to remove accumulated airborne particles. If coating becomes damaged, clean surface and re-apply coating.

## 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).

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed, absorbed through skin or inhaled. 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 contain product residue, follow label warning even after container is empty. Consult safety data sheet for more information.

**USER SAFETY INSTRUCTIONS:** Users must wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users must wear long-sleeved shirts, long pants, shoes, socks, chemical-resistant gloves and apron when handling this product. User must remove clothing immediately if pesticide gets inside. Then, wash thoroughly and put on clean clothing. Users must remove personnel protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly. When applying with a sprayer, applicator must wear a respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

**FIRST AID: If Swallowed:** Call a Poison Control Center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not give anything to an unconscious person. Do not induce vomiting unless told by a Poison Control Center doctor. In case of emergency, call 1-888-853-1758. Have the product container or label with you when calling a Poison Control Center or doctor for treatment advice. **If on skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a Poison Control Center or doctor for treatment advice. **If in eyes:** Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a Poison Control Center or doctor for treatment advice.

## CUSTOMER SERVICE: 800-832-9002

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 requirements herein are made without guarantee or representation as to results. We require 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 twelve months from date of shipment to the original purchaser or as otherwise provided on the certificate of analysis.

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

Foster PDS 40-20 R0419