



**Mold Remediation and
Prevention Products**

The Foster® brand offers mold resistant solutions for every environment...

- Houses & Condos
- Apartment Buildings
- Healthcare/Hospital Facilities
- Manufacturing Facilities
- Food & Beverage Plants
- Schools
- Universities
- Office Buildings
- Retail Buildings
- High Humidity Areas
- Existing Construction



A World Leader

For over 60 years, the Foster® brand of products have been leading the way with its mastic, coating, sealant and adhesive products for the industrial, commercial and residential construction markets. Foster introduced the first EPA-registered antimicrobial coating, and still the only, for use in HVAC systems in 1992 and has continued to manufacture and sell water-based coatings, disinfectants and accessory products for mold remediation and prevention to the indoor air quality market. Our reputation has been built on the best technical expertise driving the best technology for superior performing products.

When tested against rigorous American Standards Testing Method (ASTM) D-5590, Foster products exhibit a "0" growth rate (see next page for more information). This means Foster products have proven performance and superior efficacy that truly work!

As a leader in the IAQ industry, the Foster brand product line includes:

- EPA-Registered Antimicrobial Products
- Mold Resistant Products
- Disinfectant/Sanitizer
- Accessory Products

For additional information, please visit www.fosterproducts.com.

... and all types of surfaces...

- Walls
- Ceilings
- HVAC Systems
- Wall Cavities
- Underside of Floorings
- Basements
- Crawl Spaces
- Roofs
- Siding
- Asphalt Shingles



EPA-Registered Antimicrobial Products



Our customers come first, and our ability to meet their needs is the key to our success.

Foster® products are “Globally Specified, Proven, and Preferred” by IAQ professionals around the world. Specifically, our antimicrobial coatings are ideal for use in buildings and locations where mold already exists, or may potentially exist. These products have been successfully used in the field as the number one mold resistant coatings since 1992. Both of our EPA-Registered mold resistant coatings (Foster® 40-20™ and Foster® 40-30™) are the only coatings registered for use both in HVAC systems and on walls/ceilings.

Solutions that Work!

The cost of remediating a mold-infested building can be staggering, especially when it may be repeated due to mold growth on an inferior coating. When applied to lined and unlined HVAC systems, walls, sub floors, and studs, Foster EPA-Registered fungicidal coatings provide long-term protection by preventing the growth and spread of odor causing bacteria and mold on the coating surface.

The samples at the right show standard untreated house paint (above) vs. Foster coating (below). The Foster 40-20 coating is free of mold!



Mold covers the control sample completely.



Mold growth is inhibited on the Foster® 40-20™ coating

Foster® Coatings Proven Effective 15 Years and Running . . .

Regardless of the job, Foster 40-20 offers the highest level of resistance to mold growth on its surface while protecting the substrate from deterioration. It is the first and only EPA-registered coating for application in HVAC duct work, as well as on walls, ceilings, pipes or wherever effective controls are essential. Foster 40-20 provides a flexible, tough film that remains clean while retarding fiber release and further erosion of the duct insulation. Over the past 15 years, Foster 40-20 has been extensively specified and used in numerous mold remediation projects. In one study, when used in the duct system of a prominent maximum security prison, Foster 40-20 has remained fully effective since 1992.

Visit www.fosterproducts.com for the full case study, and the use of Foster 40-20 in other remediation situations.

EPA-REGISTERED PRODUCTS

There are 3 antimicrobial products registered with the EPA: Foster® 40-20™ coating, Foster® 40-30™ coating, and Foster® 40-80™ disinfectant. These products have all gone through rigorous independent testing, required by the EPA. Both the Applicator and End User can be assured of:

Low Toxicity

These products have been fully tested for toxicity and labeled with the lowest possible toxicity warning of “caution.”

Accurate Claims

Fact based—there are no misleading claims to the consumers.

Testing

These products have been tested by an independent lab for both efficacy and toxicity.

Consistency

The formulation of EPA-Registered products is consistent with the original formula registered with the EPA.

EPA-Registered Antimicrobial Products

All Foster® Indoor Air Quality products are water-based. Additional information and specifications can be found on the MSDS sheets and Product Data Sheets, available at www.fosterproducts.com.

Product Number/ General Description	Color	Substrate	Coverage	Dry Time	Application Method	Spray Tips
Foster® Fungicidal Protective Coatings						
40-20™ Fungicidal Protective Coating <ul style="list-style-type: none"> Industry leading antimicrobial coating. Prevents the re-growth and spread of odor causing bacteria and mold on its surface. Provides a tough, elastic, water resistant coating. Prevents air erosion and fiber release when applied to fibrous duct liner insulation. 	White	<ul style="list-style-type: none"> Walls Ceilings Pipes Interior & Exterior HVAC duct systems 	80 ft ² /gal. (2.0 m ² /L)	Set to touch: 4 hours Dry through: 16 hours	<ul style="list-style-type: none"> Airless Sprayer Brush or Roller 	Tip Size*: 0.023 to 0.025", 8" to 10" fan width
40-30™ Fungicidal Protective Coating <ul style="list-style-type: none"> Prevents the re-growth and spread of odor causing bacteria and mold on its surface. Prevents air erosion and fiber release when applied to fibrous duct liner insulation. 	Black	<ul style="list-style-type: none"> Fiberglass duct liners Duct board insulation Galvanized surfaces 	Galvanized Metal: 133 ft ² /gal. (3.3 m ² /L) New Duct Liner: 100 ft ² /gal. (2.5 m ² /L) Old Eroded Duct Liner: 67 ft ² /gal. (1.6 m ² /L)	Set to touch: 6 hours Dry through: 24 hours	<ul style="list-style-type: none"> Airless Sprayer Brush or Roller 	Tip Size*: 0.019 to 0.025", 8" to 10" fan width
Foster® Disinfectant/Sanitizer						
40-80™ Disinfectant/Sanitizer** <ul style="list-style-type: none"> Use as a disinfectant, sanitizer, cleaner, fungicide, deodorizer, virucide and germicide. Kills a large variety of microbes within minutes. Contains surfactants to help clean and remove residue. Designed for use in water damage restoration situations. 	Clear	<ul style="list-style-type: none"> All hard, non-porous surfaces Sanitizes porous and semi-porous materials 	Depends on application method and surface. Apply sufficient quantity to insure the surface remains wet continuously for at least ten (10) minutes.	Dry thoroughly before applying top coating.	<ul style="list-style-type: none"> Garden sprayer, spray bottle, cloth, mop or sponge 	Airless sprayers are NOT recommended. Coarse spray only.

Guide to Primer Use

Surface	Required Primer	Coating
Wood (structural studs, OSB, plywood)	None	All
Metal (galvanized, foil)	40-26 (recommended)	All
Drywall (unpainted)	None	All
Concrete, brick, plaster, masonry cement block (unpainted)	40-22 or 40-26	All
Painted surfaces (flat finish)	None	All
Painted surfaces (gloss finish)	40-26 or sanding	All
Wood (smooth, sanded, hardwoods)	40-26	All
Ductliner, duct board	None	40-20 or 40-30

Airless Spray Equipment Guidelines

Foster Mold Resistant Coatings can be applied with most manufacturers commercial grade electric airless sprayers. Sprayers with the following minimum specifications are suggested:

Operating Pressure (psi):	3000
Motor Size (hp)	3/8
Volume (gpm):	0.45
Hose (inches i.d.):	1/4" up to 50', 5/16" over 50'
Spray Tips*:	Refer to Product Information Chart.

* Tip sizes as small 0.017" may be used, however, application will be slower and may require multiple passes to achieve recommended coverage rate. Spray equipment manufacturers specifications should be reviewed for maximum tip size acceptable for the sprayer being used.

** Not for use on the interior on HVAC systems. Refer to product label for use directions.

Mold Resistant Products

Resisting Mold in the Toughest Environments

Foster® brand coatings provide the highest level of performance even in the harshest conditions. Foster Mold Resistant Coatings specialize in resisting long-term mold growth on their surface. In addition to coatings, our accessory products improve the adhesion and aesthetic appeal when used.

ASTM D-5590 Testing Provides Evidence

We demonstrate the efficacy of our mold resistant products with extensive ASTM D-5590 Testing. ASTM D-5590 is specifically designed to test paints and coatings in the most severe environment possible for promotion of fungal growth. This makes it an excellent method for evaluation of a mold resistant coating's performance under the harshest conditions.

Foster® Brand Products Superior Performance and Highest Standards

Our products are constantly monitored for high quality through our ISO 9001 certification. This high level plant quality certification assures consistent, high quality Foster brand products. In addition, we test independently through a leading commercial IAQ laboratory (Aerotech Laboratories, Inc.) to maintain our position of leadership.

ASTM D-5590 Test Method

ASTM D-5590 was purposefully developed to test paints and coatings in the "worst-case conditions" possible for promotion of mold, mildew, fungus and algae growth. This method is the best for evaluating a mold resistant coating's performance under ideal mold growth situations.

Mold requires three elements for growth: high humidity, proper temperatures and a food source. ASTM D-5590 provides these elements in an optimal environment for growth. To insure continual exposure, the sample is surrounded with active, continually re-generating mold spores, truly testing the product's resistance to growth. These conditions represent a worst-case scenario in a real world application where there is active mold spore generation on an adjacent substrate to the coated material at a temperature and humidity highly conducive to mold growth.

Other commonly cited tests do not provide this high standard of testing combining all three elements, and consequently do not reflect the product's performance under the most relentless mold growth conditions.

WHAT CAUSES MOLD TO GROW?

Mold and mildew are naturally occurring, ever-present organisms found throughout indoor and outdoor environments. The organisms will grow with the right combination of moisture, temperatures and food sources. Indoor mold flourishes in dark, damp, warm environments and can grow in places not easily visible. Whenever moisture combines with a food source, mold and mildew can start to grow and spread within 24 to 48 hours – and will grow exponentially given the right conditions. Many building construction materials are excellent food sources for mold and mildew.

The key to mold prevention is moisture control:

- Keep the indoor humidity level low – if possible below 60 percent (ideally between 30 and 50 percent) relative humidity.
- Ensure rooms are properly ventilated and consistently cleaned.
- Ascertain there are no water leaks or areas of excessive water or moisture accumulation.
- Prevent condensation – reduce the potential for condensation by adding insulation.

If mold contamination does occur, addressing the source of water intrusion is a key factor in solving the problem. Once the source of water intrusion is fixed, remediation may need to be handled by a professional, depending on the type of mold growth and the size of mold problem. If a professional service provider is needed, make sure he/she has experience cleaning up mold.

Mold Resistant Products

All Foster® Indoor Air Quality products are water-based. Additional information and specifications can be found on the MSDS Sheets and Product Data Sheets, available at www.fosterproducts.com.

Product Number/ General Description	Color	Substrate	Coverage	Dry Time	Application Method	Spray Tips
Foster® Mold Resistant Coatings and Sealants						
40-10™ Duct Liner Adhesive Coating • Seals and reinforces the surface of new and aged duct liner. • Prevents air erosion and fiber release. • Resists mold, fungus, and discoloration from mildew and mold stains on its surface.	White	• Fibrous duct liner • Unfaced duct board insulation	80 to 200 ft ² /gal. (2.0 to 4.9 m ² /L)	Set to touch: 6 hours Dry through: 24 hours	• Airless Sprayer • Brush or Roller	Tip Size*: 0.019 to 0.025", 8" to 10" fan width
40-11™ Eclipse™ Coating • Matches the original surface color of most duct liner insulations. • Seals and reinforces the surface of new and aged duct liner. • Prevents air erosion and fiber release resists mold, fungus and discoloration.	Black	• Fibrous duct liner • Duct board insulation	50 to 150 ft ² /gal. (1.2 to 3.7 m ² /L)	Set to touch: 6 hours Dry through: 24 hours	• Airless Sprayer • Brush or Roller	Tip Size*: 0.019 to 0.025", 8" to 10" fan width
40-23™ Insulation Sealer • Penetrates deeply into existing HVAC duct liner insulations, forming a damage resistant surface that reduces particle release. • Resists fungus and mold growth on its surface.	White	• Fibrous duct liner • Duct board insulation	50 to 150 ft ² /gal. (1.2 to 3.7 m ² /L)	Dry through: 2-4 hours at ambient	• Airless Sprayer • Brush or Roller	Tip Size*: 0.019 to 0.025", 8" to 10" fan width
40-50™ Mold Resistant Coating • Formulated with EPA-registered antimicrobial agents which provide protection against odor causing bacteria, mildew and mold growth on the product surface. • For use in areas prone to the growth of mold.	White	• Wall cavities, floor joists, attic spaces • Wood and metal studs, drywall, OSB, furring strips, masonry	300 ft ² /gal. (7.4 m ² /L)	Dry through: 1-2 hours at ambient	• Airless Sprayer • Brush or Roller	Tip Size*: 0.015 to 0.017", 8" to 10" fan width
40-51™ Mold Resistant Coating • Provides a clear finish leaving the original surface visible after application. • Specially formulated with EPA-registered antimicrobial agents for long-term protection from mold growth on its surface.	Clear	• Wall cavities, floor joists, attic spaces • Wood and metal studs, drywall, OSB, furring strips, masonry	Wood: 250 to 450 ft ² /gal. (6.1 to 11.0 m ² /L) Non-Porous Surfaces: 500 to 600 ft ² /gal. (12.3 to 14.7 m ² /L)	Dry through: 1 hour at ambient	• Airless Sprayer • Brush or Roller	Tip Size*: 0.015 to 0.017", 8" to 10" fan width
40-55™ Clear Defense™ Mold Resistant Coating • Specifically designed to protect and maintain the aesthetics of residential, commercial and industrial surfaces. • Formulated with EPA-registered additives, providing long-term resistance to the growth of mold, mildew, fungus and algae on its surface without blushing or yellowing.	Clear	• Masonry, stucco, concrete and clay roofing tiles • Asphalt shingles, vinyl, aluminum, painted wood	Non-Porous Surfaces: 300 ft ² /gal. (7.4 m ² /L) Porous will require more product.	Dry through: 40 minutes- 1 hour	• Airless Sprayer • Brush or Roller	Tip Size*: 0.015 to 0.017", 8" to 10" fan width
Foster® Accessory Products						
40-16™ Block Filler • Abrasion-resistant fill coat eliminates pores, depressions and crevices in a one-coat application.	Off White	• Unpainted masonry surfaces	40 to 70 ft ² /gal. (1.0 to 1.7 m ² /L)	Set to touch: 1-2 hours Dry through: 15 hours	• Airless Sprayer • Brush or Roller	30:1 Air Pump with Inductor Plate. Tip Size: 0.021 to 0.025", 8" to 10" fan width
40-22™ Masonry Sealer & Primer • Penetrates into the surface, strengthening it and sealing it to help eliminate blistering and peeling	Off White (dries clear)	• Unpainted block plaster • Cement surface	50 to 200 ft ² /gal. (1.2 to 4.9 m ² /L)	Dry through: 2-4 hours at ambient	• Airless Sprayer • Garden Sprayer or Spray Bottle	Tip Size: 0.017 to 0.021", 8" to 10" fan width
40-26™ Water-based Primer • Bonds and protects against stains and corrosion. • Increases the bondability of retrofit systems.	Off White (dries translucent)	• Metal, and rusty metal • Concrete • Masonry • Wood	Metal: 200 to 300 ft ² /gal. (4.9 to 7.4 m ² /L) for corrosion protection; 400 to 600 ft ² /gal. (9.8 to 14.7 m ² /L) for improving adhesion.	Dry through: 1 hour at ambient	• Airless Sprayer • Brush or Roller	Tip Size: 0.017 to 0.021", 8" to 10" fan width

*See Airless Spray Equipment Guidelines for information.

The Foster® Clean, Kill & Coat™ three-phased approach for mold remediation eliminates the chance for the return of mold.

Step 1. Clean

- Remove any water-damaged and mold contaminated materials that cannot be salvaged such as carpeting, furniture and wallboard.
- Thoroughly dry all materials to be left in place by exposing them to circulated dry air.
- Follow with a thorough cleaning and removal of all contaminants.

Step 2. Kill

- Sanitize the affected porous and non-porous surfaces with the ready-to-use, EPA-registered Foster® 40-80™ Disinfectant/Sanitizer to clean, deodorize and remove any residual microbial contaminants.
- The surface should remain wet for 10 minutes.

Step 3. Coat

- Coat the surface with the appropriate Foster brand protective coating evenly and thoroughly. We recommend an airless sprayer for an even application.
- Ventilate well for proper drying. Continue ventilation using appropriate fans, negative air machines or air scrubbers until odors are reduced to acceptable levels.
- Always ensure the use of PPE (Proper Protective Equipment).



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