



Bio-Shield Interior Coating

PRODUCT DESCRIPTION

ECO-PROTECTIVE PRODUCTS' Bio-Shield Interior Coating (BSIC) is a Low VOC, hybrid polyurethane dispersion/ acrylic coating developed as an environmentally safe, advanced interior paint for healthcare facilities, laboratory clean rooms, the hospitality industry, school systems, and more. BSIC exhibits a combination of outstanding flexibility, superior water and solvent resistance, and abrasion / impact resistance. The coating is impervious to moisture penetration. BSIC is uniquely engineered with an EPA registered, zinc-based antimicrobial agent that is occupant safe but creates an inhospitable environment on the coating's dry film surface for the proliferation and growth of microbial cells, which often cause unsightly stains and odors on other, less advanced paint films.

KEY BENEFITS

- Incorporates industry leading, innovative antimicrobial dry-film properties
- Low VOC & Environmentally Friendly
- Single Component System – no mixing required
- Excellent pigmentability
- Excellent physical resistances
- Enhanced chemical and solvent resistance
- Improved substrate and inter-coat adhesion
- Superior flexibility
- Great color stability
- Stain and smudge resistant
- Easily washed and scrub resistant
- Ideal for high traffic areas
- Available in wide variety of colors
- Available in Gloss, Semi-Gloss and Eggshell finishes

RECOMMENDED USES

- Clean room walls and ceilings
- Hospital patient rooms, operating rooms, and common areas
- Bathrooms and locker rooms
- Hotels
- Cruise ships
- Restaurants

SURFACES

- Masonry block, plaster, tile, concrete, wooden surfaces, metal and drywall
- Walls
- Ceilings
- Hand rails
- Bed rails
- Counter tops

Since Seller exercises no control over Buyers application or use of the product manufactured by Seller ("product") and since materials used with the product may vary, it is understood that:

- (a) While all data presented in Seller's technical data sheet is based on the best information available to Seller and believed correct, such data is not to be construed as a warranty that the product will conform to such specifications. Such technical data sheets are subject to change without notice.
- (b) Reported laboratory test results of fire redundancy in no way relates to the actual performance under fire conditions. Since all urethane systems are organic, they will burn.

Mother Nature's Preferred Paint

3535 Peachtree Rd. STE 520-643 Atlanta, GA 30326 • (770) 757-3713 • www.ecoprotectiveproducts.com



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TYPICAL PHYSICAL PROPERTIES

Appearance	Milky White
Specific gravity @ 25° C	1.17
Weight per gallon, lb. @ 25° C	9.73
Voc, g/L	24.35
% Solids by volume, %	41

THEORETICAL COVERAGE

655 square feet at 1 mil DFT (3mil WFT)

Recommended application is 2 mils DFT

TYPICAL FILM PROPERTIES*

Films are air-dried overnight @ 75° F

Tensile Strength, psi, 75° F, ASTM D-412	3646
Elongation, % 75° F, ASTM D-412	7
Tear Strength, pli, 75°F, ASTM D-624	7.1
Pencil Hardness	162
Gardner Drying Time, Tack Free, minutes	17

**These items are provided as general information only. They are approximate values and are not considered part of the product specification.*

APPLICATION GUIDELINES

These instructions are not intended as product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

SURFACE PREPARATION

All surfaces must be clean, smooth and dry. Any debris, gravel, dust, or silt must be removed prior to application. Additionally, no blisters, excessively rough foam, or cracks may be present. At no time can the surface be oxidized.

MIXING PROCEDURES

For superior application results, thoroughly mix the contents of all containers prior to application to ensure uniform pigment dispersion.

APPLICATION EQUIPMENT

This product is designed to be applied by roller (1/2" nap) and spray equipment. When using a spray pump a 30:1 or 45:1 fluid to air ratio capable of delivering 2 ½ gallons or more per minute continuous is recommended with a filter screen of 30 mesh. If a fluid spray hose is utilized, it should be high pressure with designed working pressure to handle maximum pressure delivered by the spray pump. Inside lining or tube should be of such a material so it is unaffected by coating and/or the solvents recommended for clean up. Additionally, the following criterion should be used: 3/8" minimum I.D. up to 75 feet, ½" Minimum I.D. up to 200 feet, and ¾" I.D. over 200 feet.

The larger I.D. sections should be used closest to the pump in all circumstances.

If a gun hose whip is used, high pressure with adequate W.P.S.I. 3/8 I.D. x 6 feet or ½ I.D. x 25 feet with an appropriate lining or tube is recommended.

Typical spray equipment including Graco Hydra Mastic or equivalent may be used. Any spray tip should be a reversible type with an orifice size of .027 to .039 with a fan angle of 40° to 50°.

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APPLICATION PROCEDURES

Bio-Shield Interior Coating may be applied by brush or roller for touch-up and edging work or for small areas not practical for spray application. This product may be applied in 2 or more separate coats to insure proper coverage. **The first coat must be completely dry and cured before the second coat is applied.** If any contamination of a thoroughly cured surface occurs, it must be washed with a cleaner to remove such contamination.

STORAGE

Bio-Shield Interior Coating polyurethane dispersion must be stored in tightly closed containers to prevent evaporation of water and the introduction of contaminants that can adversely affect processability. Recommended storage temperatures are 5 to 40 degrees Celsius. The shelf life is twelve months when stored in closed original containers at 77° F (25° C). In order to maintain product uniformity, protect from freezing.

HEALTH AND SAFETY INFORMATION

Appropriate literature has been assembled which provides information pertaining to the health and safety concerns that must be observed when handling Bio-Shield Interior Coating polyurethane dispersion. Before working with any product mentioned in this publication, you must read and become familiar with available information concerning its hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms such as material safety data sheets and product labels. For further information contact your Eco-Protective Products representative.

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