

GreenBarrier 6004

LEAD FREE

INDUSTRIAL MAINTENANCE COATING



For Professional Use Only

GSP DOCUMENT NO.: TDS 2017024

TECHNICAL DATA SHEET

PRODUCT INFORMATION

Product Type: A two-component, 1:1 mix, batch grade Lead Free Butyl Vapor Barrier coating.

Recommended Uses: This product provides a low permeance coating for use as a vapor barrier where moisture transmission is a concern.

Product Limitations: This product is not UV protective or resistant to hydrocarbons, and must be top-coated with an appropriate topcoat. GreenBarrier 6004 is not suitable for constant immersion.

Colors: Dark Brown to Black

ORDERING INFORMATION:

This product is two-component and available in 5-gallon pail sets "A" and "B" (18.9 liters)

- 6004A-X5
- 6004B-X5

Pot life: > Approximately 60 minutes at 77°F. The Pot life decreases as the temperature goes up.

Cleanup: Clean up with Xylene.

Shelf Life: This product has a shelf life of 6 months when stored in factory sealed containers at < 80°F.

Coverage rate: If applied at 1 gallon per 100 square feet, theoretical dry film thickness will be 8.8 mils. This product may be applied up to 1 1/2 gallons per 100 square feet.

Minimum Thickness Recommended:
25 mils - - Dry Film Thickness

PHYSICAL PROPERTIES:

Tensile Strength:	90 PSI ± 25	ASTM D2370
Elongation:	480% ± 25	ASTM D2370
Permeability:	0.1 U.S. Perms	ASTM D1653 @ 17 dry mils
VOC Content mixed A & B:	< 450 grams / liter	Calculated EPA Rule Method 24
Hardness:	20± 5 points	Shore A
Solids Content By Weight:	60% ± 2	(As mixed 1:1 ratio) ASTM D7232
Solids Content By Volume:	55% ± 2	(As mixed 1:1 ratio) ASTM D2697
Maximum Continuous Service Temperature:	225°F (108°C)	
Flash Point:	A-side: < 80°F. B-side: < 80°F.	ASTM D-1310
Cure Time:	48 Hours to Cure, Temperature, Humidity & Wind Dependent	2 Weeks for Full Cure
Hydrolytic Stability:	Negligible change after immersion in distilled water for 6 months.	

SHIPPING INFORMATION:

<u>Container Size</u>	<u>Class</u>
A Side 5 Gal. (18.9 Liter)	55
B Side 5 Gal. (18.9 Liter)	55

D.O.T. CLASSIFICATION:

A-Side: Coating Solution, 3, UN1139, PG III
B-Side: Coating Solution, 3, UN1139, PG III

HMIS® Rating:

A-Side: Health 2, Flammability 3, Reactivity 0, Protection X
B-Side: Health 2, Flammability 3, Reactivity 0, Protection X
Mixed: Health 2, Flammability 3, Reactivity 0, Protection X
0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

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APPLICATION PROCEDURES

SURFACE PREPARATION: All surfaces to be coated must be clean, dry, and paintable. It may be necessary to power wash and/or prime to enhance adhesion. See application specification for more details.

MIXING PROCEDURES: Thoroughly blend all material (50% A, and 50% B by volume) for at least 5 minutes with a 1/2 HP air-driven power mixer prior to application. Pot life for this product is approximately 60 minutes at 77°F. **DO NOT MIX MORE PRODUCT THAN CAN BE USED WITHIN THE LIMITS OF THE POT LIFE. .**

WEATHER RESTRICTIONS: It is not recommended that this product be applied at temperatures below 50° F. (10° C.), or in the presence or threat of rain, mist, fog, snow, dew, high humidity, or other sources of moisture.

APPLICATION EQUIPMENT: This product is designed to be applied by spray equipment, using a batch-mix method. May also be applied using solvent-resistant brushes and rollers for touch-up or edging work, or when spray equipment is not available.

Feed pumps must be of a divorced design, with a 2:1 fluid to air ratio capable of delivering 2 1/2 gallon per minute continuous. Feed hoses should have a 3/4" I.D., with designed working pressure capable of handling full feed pump pressure. The inside liner of hoses must be of a material that is unaffected by the coating and the solvents used for clean up.

When using a spray pump, a 30:1 or 45:1 fluid to air ratio, capable of delivering 2 1/2 gallon per minute continuous is required. Any filter screens used should be 30 mesh or larger.

When a fluid spray hose is used, it must be high-pressure, with designed working pressure to handle maximum pressure delivered by the spray pump. The following hose specifications must be met: 1/2" minimum I.D. hose up to 200 feet in length, and 3/4" minimum I.D. hose over 200 feet in length. In all cases, use the larger I.D. sections from the pump out. Any spray hose should be insulated for extreme high and low temperature applications. When ambient temperatures fall below 65° F. it may be necessary to heat the material, in order to keep the viscosity at a sprayable level. If necessary, primary heaters and heated/insulated hoses can be used.

When a gun hose whip is used, a high-pressure type is required with adequate W.P.S.I. 3/8" I.D. x 6 feet having an appropriate lining. We recommend a Graco Hydro Mastic spray gun, or equivalent. Spray tip should be a reversible, self-cleaning type with an orifice size of .029 to .033 with a fan angle of 60 or 70° able to maintain an adequate spray pattern. A smaller size spray tip may be required to develop a spray pattern depending upon pump size, length and size of hose and material temperature.

APPLICATION PROCEDURES: This product may be applied directly to any clean, dry surface. Polyurethane foam should be coated within 24 hours of application. Subsequent coats should be applied within 7 days of prior applications to insure full and uniform adhesion. Coating must be applied in 2 or 3 separate applications, each applied at right angles to the previous coat. Coating must be evenly applied and pinhole-free.

Before applying a subsequent coat of this product the previous coat must be completely dry and cured. If any contamination of a thoroughly cured surface occurs, it must be washed with a chemical cleaner before applying subsequent coats. Coating must be extended beyond the substrate to create a self-terminating flashing. Consult Green Shield Products, LLC. for recommended dry film thickness.

SAFETY PRECAUTIONS: This product contains flammable solvents. Keep coating material and cleaning solvents away from all sources of heat, sparks, flame, lighted smoking materials, or any other ignition source. Pumping equipment should be grounded to avoid accidental ignition due to static sparks.

Avoid breathing solvent vapors. Use an appropriate MESA/NIOSH approved respirator when exposure can exceed recommended PEL. This product is not recommended for interior usage. Additional care must be taken to prevent roof top mounted HVAC equipment from introducing evaporating solvent into interior areas. Building occupants should be warned of spray operations in process.

Installers should read and understand all technical and informational literature on this product, including the MSDS, prior to use of the product.

To the best of our knowledge, all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. User must contact Green Shield Products, LLC to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by Green Shield Products, LLC. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY Green Shield Products, LLC EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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