

MANUFACTURER

HOMEWOOD SOLUTIONS, LLC

For Rhino Hide®

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PRODUCT DESCRIPTION

UltraBan® forms *The Invisible Shield*® of protection on it's dried film. All coatings are films. Some can be seen, such as paints on wood. Others cannot, such as silicone on glass. UltraBan's® infusion film chemistry creates an invisible shield – the dried film. This dried film resists deterioration by mold and fungus. UltraBan® may be used in your home's interior, away from food contact, and on its exterior for above ground applications. UltraBan is *Dried Film Protection*®

FEATURES

- Infusion film chemistry microscopically penetrates, encapsulates and cross-links within absorbent substrates.
- Proven effective in field-testing and in laboratory environments.
- Becomes one with the product it treats.
- Interior and exterior applications.
- Forms an encapsulating barrier film that inhibits mold and fungi growth on its surface.
- Creates a water repellent vapor permeable (1.25-2.25 perms) film protected from mold and mildew damage.
- Does not dissolve or leach out during or after treatment protecting film surfaces longer.
- Non-reactive or corrosive to metal, UltraBan® does not contain BLEACH or ACID.
- Penetrates deeply into absorbent surfaces creating cross linking polymerization.
- A pre-paint surface conditioner, which can be tinted to a desirable color before application.
- Effective on caulks and sealants as a barrier film to mold growth.

SUGGESTED APPLICATIONS

For use on all wood and wood composites, drywall, rubber, masonry, fiberglass, aluminum, bamboo, thatch and natural fibers, hemp, cordage, polypropylene, concrete and asphalt.

- At Home: All Wood Products, Siding, Drywall, Decking, Studs, Basement Walls, Painted Surfaces, Shake Shingles, Concrete Walkways, Joists, Fencing, Patios, Fiberglass, Tile, Fiberglass Shingles, Painted Concrete, Flooring and Patio Furniture (wood, plastic or metal)

SUGGESTED APPLICATIONS con't

- On the Farm: All Wood Products, Siding, Brick, Crating, Fencing, Concrete, Floors, Walls, Vinyl, Boxing, Treated Wood Products
- In the RV: Rubber Seats, Caulking, Vinyl, Painted Surfaces, Materials Made of Natural Fibers & Nylon
- On the Boat: Teak Decking, Vinyl, Seats, Wood/Plastic/ Metal Deck Furniture, Cordage/Natural Fibers, Compartments
- Camping Gear: Wood/ Plastic/Metal Outdoor Furniture, Cordage/Natural Fibers

TESTING DATA

Method	Protocol	Performance
D-3273-00	Resistance to Mold Growth*	Rated excellent
Fed. Spec. TT-W-572B	Water Repellency	Meets
ASTM D-1413-76	Soil Block Fungal Decay Test 0.02%	Weight loss
ASTM D-1413-76 (1986)	Leach Resistance	0.04%
ASTM G-5377	Weather Resistance	No reduction in protection (accelerated 10 years)
Crosshatch adhesion	0-5 scale, 5 being excellent	5
Cleveland Humidity Cabinet	1,000 hrs	No reduction in protection
ASTM 3930	VOC Emissions	0 gm/liter
Lateral Resistance	Treated vs. Untreated	No change
Structural Strength	Treated vs. untreated	No change
TCSA listed	All Ingredients	Yes
AWPA E12-94 (corrosion)	Treated Wood	Non-reactive or corrosive
ASTM D-1653	Permeability	1.25 –2.25 perms
HUD Mfg. Housing		Accepted

- * UltraBan is a vapor permeable encapsulating film that contains a mildewcide/fungicide that prevents the growth of mold and fungi on its dried film.

REGULATORY DATA

- Contains no acids, heavy metals, aldehydes or solvents.
- Considered Non-Hazardous by the D.O.T.
- Does not Contain any VOC'S.

DO NOT ALLOW UNCURED PRODUCT TO FREEZE
KEEP OUT OF REACH OF CHILDREN

MATERIAL PREPARATION

- SHAKE WELL.
 - DO NOT DILUTE.
 - DO NOT MIX WITH OTHER PRODUCTS*.
 - ALWAYS WEAR PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING THIS OR ANY OTHER CHEMICAL (SEE SAFETY CAUTIONS).
- * may be tinted with water based paint tints to function as a "stain". Always test for colorfastness of materials to be stained.

SURFACE PREPARATION

Cleaning:

- Optimum protection is attained when surfaces are free of dirt and other contaminants before applying UltraBan.
- Rhino Hide's UltreaMean® & UltraMean-2® are recommended to pre-clean surfaces.
- Mold discoloration may remain if not removed before application. Some discolorations are permanent and are a result of surface deterioration and decomposition.
- Residual staining is not an indication of UltraBan's® encapsulating films penetration or performance.
- **Not compatible with chlorine bleach.**

Drying:

- Extreme temperature and high humidity levels will affect drying time.
- Dries to the touch in 30-60 minutes.
- Complete drying in 1-2 hours.
- Dries at the same rate as water.
- Must fully dry before being exposed to rain or water wash off.

INSTRUCTIONS FOR USE

Coverage:

- Estimated 200-1000 sq. ft. per gallon depending on surface. Greatest coverage on non-porous surfaces.
- Coverage varies depending on surface texture and absorption ability.
- Overspray and waste in tools (rollers, brushes and spray equipment) will affect coverage.

Tools:

Manual garden pumps, rollers, brushes or submersion bath

Tinting:

See your paint dealer for the correct tint.

Thinning:

DO NOT THIN or DILUTE MATERIAL.

Storage:

Keep from freezing.

Clean Up:

Thoroughly clean with soap and water.

Mixing:

Blend thoroughly before application by shaking or mechanical stirring.

Application:

- APPLY LIBERALLY TO SATURATION.
- Apply to clean, dry surfaces when both air and surface temperatures are above 40°F.
- For satisfactory results, apply liberally to saturation and remove excess product with a soft UltraBan® soaked cloth or sponge.

Materials which are absorbent and/ or porous such as wood, concrete, masonry, brick - apply UltraBan® liberally to saturation. Multiple coats are acceptable.

Non-absorbent, non or semi-porous materials, such as composite decking, vinyl, plastics, metal, fiberglass, and synthetics require a sample test for color stability and non-yellowing before complete application. Wipe these materials with an UltraBan soaked cloth or sponge to assure a uniform film application and to remove excess material

LIMITATIONS

- Life expectancy of the dried film is greatest on dry unexposed indoor surfaces such as the interior wood of attics, crawl spaces, walls, wallboard and paneling.
- Interior exposed traffic areas such as wood flooring plastic surfaces, etc., will require periodic treatment and should be considered a maintenance product.
- Exterior surfaces such as wood or wood composite decks, fencing and siding, may require annual treatment. UltraBan enhances and maintains natural beauty and can be applied repeatedly.
- Do not apply when surface or air temperature is below 40°F or above 110°F.
- Do not apply if rain or any rinsing is expected within 12 hours.
- Application to damp surfaces is acceptable.
- Do not allow product to freeze in the container or on the surface until fully dry.

ULTRABAN IS INCOMPATIBLE WITH BLEACH AND BLEACH RESIDUE – THE PRESENCE OF BLEACH BEFORE, DURING OR AFTER APPLICATION NEUTRALIZES THE EFFECTIVENESS OF THE ULTRABAN SOLUTION

COMPOSITE DECKING APPLICATION GUIDE

Guide assumes that surfaces have been pre-cleaned with UltraMean (recommended) or UltraMean-2. Further, that Chlorine Bleach has not been used. The surface is now clean and has dried completely.

Do not proceed with applying UltraBan if a heavy dew, rain or other risk of wash-off is present for at least two (2) hours after application.

Do not apply UltraBan onto a hot deck surface. Hot surfaces speed drying but reduce the micro-pore penetration of UltraBan.

Application TOOLS AND EQUIPMENT options

- Garden pump sprayer
- Mop bucket
- Sponge Mop – New is recommended but a very clean mop that has been washed with soap and water then rinsed well to remove residual chemicals left in the mop head from other cleaning agents may be used.*

* Sponge Mops used to apply UltraBan may be cleaned with hot soap and water (while still wet and before UltraBan dries in the surface).

Spray Applications

1. Always wear personal protection equipment when applying chemicals. EYE PROTECTION, GLOVES, SIMPLE FACE MASK etc. are recommended. Consult MSDS regarding material handling instructions.
2. Shake UltraBan container well or pour into a pail and mix with drill type mixer.
3. Pour UltraBan into garden pump sprayer
4. Cover and protect plants in the overspray area
5. Spray apply UltraBan to surface completely wetting surface

6. SHOULD NEVER BE USED ON ULTRABAN After 10 minutes or before UltraBan dries pre-wet sponge mop with UltraBan and “back-wipe” surfaces to remove excess material and insure application of a “uniform film of protection”
7. A repeat wiping of the surface with the UltraBan soaked sponge mop is acceptable and recommended. Additional passes over the surface will decrease coverage rate and will eventually create a film build that is no longer invisible.

UltraBan material recovered from the sponge mop may be reused if retained in the original “sealed” container

Mop/Wipe-On Applications

1. Always wear personal protection equipment when applying chemicals. EYE PROTECTION, GLOVES, SIMPLE FACE MASK etc. are recommended. Consult MSDS regarding material handling instructions.
2. Shake UltraBan container well or pour material into a pail and mix with drill type mixer
3. Cover and protect plants in the drip or run-off area
4. Dip mop into pail to wet the sponge surface
5. Remove excess material from mop to prevent drips and waste
6. Apply UltraBan to surface - completely wetting surface
7. After 10 minutes or before UltraBan dries, pre-wet sponge mop with UltraBan and “back-wipe” surfaces to insure application of a “uniform film of protection”
8. A third repeat wiping of the surface with the UltraBan soaked sponge mop is acceptable and recommended. Additional passes over the surface will decrease coverage rate and will eventually create a film build that is no longer invisible

Railings and Spindles

Because of the waste associated with spraying railings and spindles, wiping UltraBan onto these surfaces with a sponge or sponge roller is recommended.

General Care and Maintenance

A mild solution of UltraMean-2 will clean the surface without damaging the “Dried Film Protection” of UltraBan. Severe or “staining spills” on the surface requiring heavy cleaning should have UltraBan re-applied to the surface to re-establish the “Invisible Shield” or “Dried Film Protection” of UltraBan. BLEACH BASED CLEANERS TREATED SURFACES!

ULTRABAN IS INCOMPATIBLE WITH BLEACH AND BLEACH RESIDUE – THE PRESENCE OF BLEACH BEFORE, DURING OR AFTER APPLICATION NEUTRALIZES THE EFFECTIVENESS OF THE ULTRABAN SOLUTION

EXTERIOR NATURAL WOOD / MASONRY APPLICATION GUIDE

Guide assumes that surfaces have been pre-cleaned with UltraMean (recommended) or UltraMean-2. Further, that Chlorine Bleach has not been used. The surface is now clean and has dried completely.

Do not proceed with applying UltraBan if a heavy dew, rain or other risk of wash-off is present for at least two (2) hours after application.

Do not apply UltraBan onto a hot surface. Hot surfaces speed drying but reduce the micro-pore penetration of UltraBan.

Application TOOLS AND EQUIPMENT options

- Garden pump sprayer
- Sponge Rollers & Brushes
- Airless Paint Spray Equipment

Spray Applications

1. Always wear personal protection equipment when applying chemicals. EYE PROTECTION, GLOVES, SIMPLE FACE MASK etc. are recommended. Consult MSDS regarding material handling instructions.
2. Shake UltraBan container well or pour into a pail and mix with drill type mixer.
3. Pour UltraBan into garden pump sprayer
4. Cover and protect plants in the overspray area
5. Spray apply UltraBan to surface completely wetting surface
6. "Back-wipe" surfaces to remove excess material and insure application of a "uniform film of protection"
7. A second application is recommended for areas of extreme exposure. Additional passes over the surface will decrease coverage rate and will eventually create a film build that is no longer invisible.

ROLL-ON / Brush Applications

1. Always wear personal protection equipment when applying chemicals. EYE PROTECTION, GLOVES, SIMPLE FACE MASK etc. are recommended. Consult MSDS regarding material handling instructions.
2. Shake UltraBan container well or pour material into a pail and mix with drill type mixer
3. Cover and protect plants in the drip or run-off area
4. SPONGE TYPE ROLLERS ARE REQUIRED. Dip Roller into pail to wet the sponge surface
5. Remove excess material to prevent drips and waste
6. Apply UltraBan to surface - completely wetting surface
7. After 10 minutes or before UltraBan dries, pre-wet sponge roller with UltraBan and "back-wipe" surfaces to insure application of a "uniform film of protection"
8. A third repeat wiping of the surface with the UltraBan soaked sponge roller or brush is acceptable and recommended. Additional passes over the surface will decrease coverage rate and will eventually create a film build that is no longer invisible

Railings and Spindles

Because of the waste associated with spraying railings and spindles, wiping UltraBan onto these surfaces with a sponge brush or sponge roller is recommended.

General Care and Maintenance

A mild solution of UltraMean-2 will clean the surface without damaging the "Dried Film Protection" of UltraBan. Severe or "staining spills" on the surface requiring heavy cleaning should have UltraBan re-applied to the surface to re-establish the "Invisible Shield" or "Dried Film Protection" of UltraBan.

BLEACH BASED CLEANERS SHOULD NEVER BE USED ON ULTRABAN TREATED SURFACES!

MASONRY BLOCK AND BRICK

Because of the waste porosity of these surfaces, spraying and then back-rolling UltraBan onto these surfaces with a sponge roller is recommended

ULTRABAN IS NOT COMPATIBLE WITH BLEACH OR BLEACH RESIDUE – THE PRESENCE OF BLEACH BEFORE, DURING OR AFTER APPLICATION NEUTRALIZES THE EFFECTIVENESS OF THE ULTRABAN SOLUTION

HOW-TO GUIDE For WARRANTY APPLICATIONS

Guide assumes that surfaces have been pre-cleaned with UltraMean or UltraMean-2 and bleach has not been used. The surface is now clean, rinsed with fresh water and has dried completely.

Do not proceed with applying UltraBan if a risk of wash-off is present for at least two (12) hours after application.

Do not apply UltraBan onto a hot surface. Hot surfaces speed drying but reduce the micro-pore penetration of UltraBan.

Application TOOLS AND EQUIPMENT options

- Garden pump sprayer
- Airless Paint Sprayer
- Sponge Type Paint Brush
- Sponge Roller

WARRANTED APPLICATIONS & SURFACES

- Interior Applications
- Porous surfaces (Wood, Drywall, Wall Paper)
- Previously painted surfaces

EXPLICITLY EXCLUDED APPLICATIONS

- SHOWER AREA SPLASH ZONES
- EXTERIOR APPLICATIONS

TYPICAL APPLICATIONS include surfaces with post flood or water damage, renovation and remodeling walls and bathroom areas where moisture has been a problem (under sinks, water damaged walls), musty basements and attic areas.

Spray Applications – Garden Pump (May also use paint equip.)

1. Always wear personal protection equipment when applying chemicals. EYE PROTECTION, GLOVES, SIMPLE FACE MASK etc. are recommended. Consult MSDS regarding material handling instructions.

2. Shake Well or pour into pail and mix with drill mixer.
3. Pour UltraBan into garden pump sprayer
4. Cover and protect items in the overspray area
5. Spray apply UltraBan to surface until saturated, completely wetting surface
6. Remove any excess material still present after 10 minutes
7. Allow surface to dry

BRUSH/Wipe-On Applications

1. Always wear personal protection equipment when applying chemicals. EYE PROTECTION, GLOVES, SIMPLE FACE MASK etc. are recommended. Consult MSDS regarding material handling instructions.
2. Shake UltraBan container well or pour material into pail and mix with drill type mixer
3. Cover and protect items in the drip or run-off area
4. Dip brush or sponge to wet surface
5. Remove excess material from brush to prevent drips and waste
6. Apply UltraBan to surface - completely wetting surface
7. Back-wipe” surfaces to insure application of a “uniform film of protection”
8. Additional passes over the surface will decrease coverage rate and will eventually create a film build that is no longer invisible depending on material being coated

WALL PAPER

1. Because waste associated with spraying, wiping UltraBan onto these surfaces with a sponge is recommended.
2. Using UltraBan as a wetting agent instead of plain water, when installing pre-glued wallpaper, encapsulates the installed material in a mold barrier film. Removal of excess material from the face of the paper is essential to insure finish remains as intended by the manufacture. Excessive film build may yellow surface. Always perform a test, allowing the surface to completely dry for evaluation before commencing with the balance of the project.

General Care and Maintenance

A mild solution of UltraMean-2 will clean the surface without damaging the “Dried Film Protection” of UltraBan. Severe or “staining spills” on the surface requiring heavy cleaning should have UltraBan re-applied to the surface to reestablish the “Invisible Shield” or “Dried Film Protection” of UltraBan. **BLEACH BASED CLEANERS SHOULD NEVER BE USED ON ULTRABAN TREATED SURFACES!**

ULTRABAN®

October 2014
Supersedes all previously
published literature.

Protective Mold Barrier
UltraBan® 7000

SAFETY CAUTIONS

Standard precautions must be used when applying this product.

EYE CONTACT:

Immediately flush eyes with water for 15 minutes.

SKIN CONTACT:

Allergic reactions are possible when there is contact with any chemical. Therefore, care should be taken when handling UltraBan®. UltraBan® contains no heavy metals, aldehydes, solvents, or carcinogens. UltraBan® may have a drying effect on the skin causing irritation. Covering of exposed skin and eyes is suggested. When applying by spray wear a N95NIOSH approved respirator.

IF SWALLOWED:

DO NOT INDUCE VOMITING- Call a physician.

INHALATION:

Move to an area with fresh air.

Consult Material Safety Data Sheets

TECHNICAL SERVICE

Call (863) 665-0203 for the Tech Service Hotline

AVAILABILITY

Rhino Hide® products are available from select retailers and distributors, home centers, hardware and paint suppliers. Call HomeWood Solutions at (863) 665-0203 for assistance.

UltraBan Coverage Estimation Guide

SURFACE MATERIAL	Sq. Ft Per Gallon
Fiberglass	up to 1000
Vinyl Siding -	800-1000
Painted Surfaces	600-800
Drywall/Wallpaper	400-600
Previously Stained Decks	300-425
Composite Decking	300-425
Wood Surfaces	200-300
Cement/Concrete Block	150-250

THE PRESENCE OF ULTRABAN ON A SURFACE CAN BE VERIFIED IN THE LABORATORY. WARRANTY CLAIMS REQUIRE A SAMPLE OF THE MATERIAL FOR EVALUATION AND TESTING. TO PREVENT WASHOFF PROTECT FRESHLY TREATED SURFACES UNTIL COMPLETELY DRY.

ULTRABAN MAY NOT CHANGE THE APPEARANCE OF CONTAMINATED or STAINED SURFACES.

Standard LIMITED REMEDY

Follow the instructions carefully. If your application is not covered by these instructions, call (863) 665-0203 before using this product. Buyer agrees that if Rhino Hide products are proved defective, the user's exclusive remedy will be, at manufacturer's election, to replace the defective product or refund the purchase price for the defective quantity. Labor, cost of labor, or other consequential damages are hereby excluded

TEN YEAR WARRANTY – Specific Applications

HomeWood Solutions, LLC warrants the dried film of UltraBan *Surface Treatment* for a period of ten (10) years from the date of purchase when properly applied according to label instructions to a properly prepared and maintained **indoor-"protected"** surface subject to ordinary atmospheric conditions and one which has not been abused during the warranty period. This warranty excludes the cost of labor for the application of product and any indirect, special, incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, therefore the above limitation or exclusion may not apply.

The following is an overview of the procedures necessary for warranty compliance:

1. Clean the surface. **DO NOT USE BLEACH**, the presence of bleach and or bleach residues neutralize UltraBan. Rhino Hide recommends the following cleaner types; oxalic acid based (Rhino Hide's UltraMean), or sodium percarbonate based (Rhino Hide's UltraMean-2).
2. Apply UltraBan - undiluted and not mixed with other products onto surface to saturation and back wipe surface with a UltraBan soaked sponge, brush, roller or mop to insure uniform application and remove excess material.
3. Maintain the dried film – surface must not be cleaned with bleach or strong chemicals. Areas of excessive wear or exposure may need reapplication. Areas with substances spilled upon them must be immediately rinsed with mild dish soap and water. Reapply UltraBan after cleaning.
4. Warranty Claims require proof of purchase, project description and installation date. Photographs of the problem and sample of the treated surface. Field representatives may be dispatched to assist in data collection and warranty submission.