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NO. 010

BELLATRIX

Premium Concrete Enhancer

FEBRUARY 2009
(Supersedes March 2008)

DESCRIPTION

BELLATRIX is formulated using dual-protection technology combined with unique hybrid polymers, to offer the ultimate in concrete protection. Proprietary, dual-action technology provides the ultimate in both penetrating and film-forming concrete protection. BELLATRIX offers environmentally friendly, VOC-compliant protection, which provides increased stain suspension and resistance against most contaminants found in kitchens, retail food stores, restaurants, malls, garages, warehouses, distribution centers, etc.

USES

While originally formulated to be used in conjunction with hardened concrete floor systems, such as W. R. MEADOWS LIQUI-HARD® and the INDUROSHINE™ polished concrete system, BELLATRIX may also be utilized anywhere a clear, high-gloss, dual-action concrete protection system is desired.

SPECIFICATIONS

- Complies with all current federal, state, and local maximum allowable VOC requirements, including U.S. EPA, SCAQMD, and OTC.

FEATURES/BENEFITS

- Seals surface and provides optimum gloss.
- Offers stain protection against many common stain-causing contaminants.
- Produces a tough, uniform, breathable barrier for improved durability.
- Dustproofs concrete.
- Provides excellent blush resistance in damp environments.
- Applies easily and economically.
- VOC compliant.
- Protects the finish when used on polished concrete.

PACKAGING

1 Gallon (3.79 Liter) Units/4 per Carton
5 Gallon (18.93 Liter) Pails
55 Gallon (208.20 Liter) Drums

COVERAGE*

500 – 1000 ft.²/gal. (12.27 – 24.54 m²/L)
*Coverage will vary due to texture, porosity, and condition of the concrete.



TECHNICAL DATA (TYPICAL)**

The following results were obtained under laboratory conditions:

Color (Wet):	Milky White
Color (Dried):	Clear/Transparent
Weight per Gallon, lb./gal:	8.46
pH:	7.31
VOC, g/L	57.6
Drying Time @ 73° F, 50% RH	1-2 hours***
Re-coat Time:	2-6 hours
Foot Traffic:	4-6 hours
Wheel Traffic:	6-12 hours
Adhesion to Concrete:	Excellent
Ultraviolet light (UV) degradation tested to ASTM C 1315, 8.86:	
Ultraviolet Resistance: Non-yellowing	
Chalk Resistance:	No chalking
Check/Peel Resistance:	No deterioration

**All technical data is typical information, and may vary due to test methods, conditions and operator technique.

***Low concrete or air temperatures and/or high relative humidity will extend drying times.

STAIN BLOCKING

BELLATRIX is formulated to provide a reasonable amount of time for cleanup and removal of spills. Prior to that removal, BELLATRIX will provide a barrier to the following contaminants:

Evaluation Scale: E = Excellent, VG = Very Good, G = Good, F = Fair, P = Poor

	24-Hour Stain Resistance	
	Untreated Concrete	LIQUI-HARD and BELLATRIX**
Used Motor Oil	P	E
Diesel Fuel	F	VG
Ammonium Hydroxide	G	E
Phosphoric Acid	P	P
Pickle Juice	P	VG
Salad Dressing	P	P
Grape Juice	P	E
BBQ Sauce	F	E
Ketchup	F	E
Mayonnaise	G	E
Hot Sauce	P	VG

**Under laboratory conditions, using a two (2) coat application of BELLATRIX at 500 ft.²/gal. over concrete treated with LIQUI-HARD. To determine the optimum results, it is recommended that different dilution rates be tested in the field and evaluated for gloss and stain-resistance properties.

CONTINUED ON REVERSE SIDE...

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APPLICATION

BELLATRIX is designed for existing concrete and should not be used as a curing compound on freshly placed concrete. A small test patch application is always recommended. The test patch must be done using the same applicator (personnel), equipment, surface preparation, application technique, and at the same temperatures, relative humidity, airflow conditions, etc., that will exist at the time of the full-scale BELLATRIX application.

Surface Preparation ... The surface must be thoroughly clean, dry and free of anything that will prevent BELLATRIX from bonding properly with the concrete. This includes, but is not limited to: bond breakers, release agents, curing compounds, coatings, sealers, stains, oil, grease, un-neutralized acid stain, dirt, efflorescence, dust, etc.

Polished Concrete ... BELLATRIX may be applied over concrete that has been previously treated with a densifier/hardener such as LIQUI-HARD and/or polished with a system like INDUROSHINE. Concrete must be a minimum of 28 days old before polishing with INDUROSHINE. Allow a minimum of 48 hours after a LIQUID-HARD treatment before applying BELLATRIX. Best results are obtained if the surface is burnished two hours after application of BELLATRIX. Use a high speed burnisher with a 3000-grit or hogs hair pad. If products or systems other than INDUROSHINE or LIQUI-HARD are used, a small test patch application is always recommended.

Existing Concrete ... BELLATRIX should be used full strength on existing concrete (no dilution necessary). Concrete must be a minimum of seven days old before applying BELLATRIX. The concrete must be clean, dry and prepared, per Surface Preparation instructions above.

Mixing ... Any separation in the container must be re-dispersed with gentle agitation prior to use. CAUTION: TO AVOID FOAMING, DO NOT MIX EXCESSIVELY.

Application Method ... An industrial sprayer, such as a Chapin 1949, with a 5916 spray nozzle (or equivalent), delivering 1/10th of a gallon per minute, is recommended. Application equipment must be clean, dry and free of any previously used materials. After initially spraying the product onto the surface, uniformly spread it with a micro-fiber applicator. The micro-fiber pad



LIMITED WARRANTY

“W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order.” Read complete warranty. Copy furnished upon request.

Disclaimer

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.

should be pre-wetted with BELLATRIX prior to use, and the product must not be allowed to dry before spreading is complete. Optimum performance is achieved with two (2) uniform coats. The second coat should be applied at a 90° (right) angle to the first coat, only after the first coat is thoroughly dry – typically six (6) hours after application, depending on temperatures and conditions.

NOTE: Keep surface dry for a minimum of 48 hours after application; full stain blocking ability will not be effective until 72 hours after final application.

Cleanup ... While BELLATRIX is still wet, equipment can be cleaned with soap and water. Once dried, the material can be removed with a solvent, such as xylene or toluene.

PRECAUTIONS

KEEP FROM FREEZING. Do not use BELLATRIX as a curing compound on freshly placed concrete. Due to occasional uncontrollable variations in concrete substrates, application error, etc., BELLATRIX may not block all staining materials in every instance. BELLATRIX is formulated to provide a reasonable amount of time for cleanup and removal of spills. Do not apply when air, material or surface temperatures are expected to fall below 40° F (4° C) within four hours of completed application. DO NOT MIX WITH ANY OTHER PRODUCTS.

Stain resistance and gloss will vary with changes in dilution ratios, coverage rates and with the nature of the substrate. A test area is recommended to verify that the desired appearance and performance is achieved with the intended use conditions.

HEALTH AND SAFETY

Direct contact may result in mild irritation. Inhalation may cause irritation of the respiratory tract. Refer to Material Safety Data Sheet for complete health and safety information.

SHELF LIFE (TYPICAL)

One year in original, unopened container.

LEED INFORMATION

May help contribute to LEED credits:

- EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings
- MR Credit 5.1: Regional Materials: 10% Extracted, Processed & Manufactured Regionally
- MR Credit 5.2: Regional Materials: 20% Extracted, Processed & Manufactured Regionally

For most current data sheet, further LEED information, and MSDS, visit www.wrmeadows.com.