BELLATRIX®
Premium Concrete Enhancer

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. 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 centres, etc.

USES
While originally formulated to be used in conjunction with hardened concrete floor systems, such as LIQUI-HARD® and the INDUROSHINE™ polished concrete system from W. R. MEADOWS, BELLATRIX may also be utilized anywhere a clear, high-gloss, dual-action concrete protection systems is desired. BELLATRIX is designed for use on previously sealed surfaces, as well as surfaces that have been previously stained or dyed and sealed. (Check compatibility with existing sealer prior to full application.)

FEATURES/BENEFITS
• Breathable film allows moisture in cured concrete to evaporate.
• 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.
• Rejuvenates previously sealed or densified concrete.
• Perfect for use over acrylic sealers.

PACKAGING
3.8 Litre (1 U.S. Gal.) Units/4 per Carton
18.9 Litre (5 U.S. Gal.) Pails
208 Litre (55 U.S. Gal.) Drums

COVERAGE
12.3 - 24.5 m²/L (500 - 1000 ft.²/U.S. Gal.)
Steel Troweled Concrete:
12.3 - 14.7 m²/L (500 - 600 ft.² U.S. Gal.)
Polished Concrete:
24.5 - 36.8 m²/L (1000-1500 ft.²/U.S. Gal.)
Coverage will vary due to texture, porosity, and condition of the concrete.

SHELF LIFE
When stored indoors in original, unopened containers at temperatures between 4° - 32° C, optimum performance and best use is obtained within one year of date of manufacture.

SPECIFICATIONS
• Tested per ASTM D1308.
• Complies with Canada VOC Concentration Limits for Architectural Coatings Regulations.

TECHNICAL DATA
The following results were obtained under laboratory conditions:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour (wet)</td>
<td>Milky White</td>
</tr>
<tr>
<td>Colour (dried)</td>
<td>Clear/Transparent</td>
</tr>
<tr>
<td>Weight, kg/L</td>
<td>1.014</td>
</tr>
<tr>
<td>pH</td>
<td>7.31</td>
</tr>
<tr>
<td>VOC, g/L</td>
<td>217</td>
</tr>
<tr>
<td>Drying Time @ 23º C, 50% RH</td>
<td>1 - 2 hours*</td>
</tr>
<tr>
<td>Re-coat time</td>
<td>2 - 6 hours</td>
</tr>
<tr>
<td>Foot Traffic</td>
<td>4 - 6 hours</td>
</tr>
<tr>
<td>Wheel Traffic</td>
<td>6 - 12 hours</td>
</tr>
<tr>
<td>Adhesion to Concrete</td>
<td>Excellent</td>
</tr>
<tr>
<td>Ultraviolet Resistance</td>
<td>Non-yellowing</td>
</tr>
<tr>
<td>Chalk Resistance</td>
<td>No chalking</td>
</tr>
<tr>
<td>Check/Peel Resistance</td>
<td>No deterioration</td>
</tr>
</tbody>
</table>

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

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:

Continued over ...
**Under laboratory conditions, using a two-coat application of BELLATRIX at 12.2 m²/L (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.

### 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, coatings, 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 12 hours after a LIQUI-HARD treatment before applying BELLATRIX. Burnishing may commence two hours after application of BELLATRIX. For optimum results, wait 24 hours. 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 1.9 LPM spray-rate nozzle, 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 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 uniform coats. The second coat should be applied at a 90º (right) angle to the first coat, only after the first coat is thoroughly dry — typically six 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.

### Clean Up

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, or SEALTIGHT SOLVENT from W. R. MEADOWS.

### PRECAUTIONS

KEEP FROM FREEZING. Do not use BELLATRIX as a curing compound on freshly placed concrete. Due to occasional un-controllable 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 4º C (40º F) 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.

### MASTERFORMAT NUMBER AND TITLE

03 35 00 - Concrete Finishing

### LEED INFORMATION

May help contribute to LEED credits:
- IEQ Credit 4.2: Low-Emitting Materials - Paints and Coatings
- IEQ Credit 4.3: Low-Emitting Materials - Flooring
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

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

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