MasterProtect® HB 300SB
Waterborne, high-build, modified acrylic waterproof coating

DESCRIPTION
MasterProtect HB 300SB is a waterborne, high-build, modified acrylic waterproof coating for above-grade concrete, stucco, block and brick surfaces.

PRODUCT HIGHLIGHTS
- Green concrete application expedites project completion
- Suitable for cool weather applications
- Adheres to properly prepared smooth and chalky surfaces
- Primerless adhesion saves time and money
- Resists wind-driven rain, helps prevent water penetration into the substrate
- Breathable to allow water vapor to escape
- Available in smooth and fine sand texture for varied finished appearances

APPLICATIONS
- Exterior
- Vertical
- Above-grade
- Protecting and waterproofing

HOW TO APPLY
SURFACE PREPARATION
1. Surfaces should be clean and sound and free of all bond-inhibiting contaminants.
2. Concrete substrates may be coated after 7 days.
3. Repair any holes, spalled and damaged concrete with appropriate Master Builders Solutions repair materials. Allow appropriate cure time prior to coating.
4. Remove any protruding concrete accessories and smooth out any surface irregularities.
5. High-pressure power wash surface (or abrasive blast on hard, dense surfaces) to create a profile of SP 3, per ICRI Guide 310.2.
6. Some stains may require chemical removal. Neutralize any cleaning compounds used and rinse with clean water.
7. Check adhesion of old coatings according to ASTM D 3359, Measuring Adhesion by Tape Test Method A.
8. Remove any blisters or delaminated areas and sand edges to smooth rough areas and provide transition to old paint areas.
9. Treat cracks greater than 1/32” with MasterProtect FL 746 or MasterProtect FL 748. Treat cracks larger than 1/4” as expansion joints and fill with appropriate Master Builders Solutions sealant.
10. New CMU must have a base coat of MasterProtect FL 749.

SUBSTRATES
- Concrete
- Masonry
- Stucco
- Existing Coatings

PACKAGING
5 gallon (18.9 L) pails

YIELD
See charts on page 2

STORAGE
Store in unopened containers in a clean, dry area. Keep from freezing

SHELF LIFE
18 months when properly stored

VOC CONTENT
Less than 300 g/L
less water and exempt solvents
Technical Data

Composition
MasterProtect HB 300SB is a high-build, waterborne acrylic coating.

Compliances
- Alberta Transportation - Type 3 sealer

Typical Properties

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
<th>TEXTURED</th>
<th>SMOOTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight, lbs/gal (kg/L)</td>
<td></td>
<td>(1.49–1.54)</td>
<td>(1.28–1.32)</td>
</tr>
<tr>
<td>Solids, %</td>
<td></td>
<td>67.7</td>
<td>51.4</td>
</tr>
<tr>
<td>By weight</td>
<td></td>
<td>49.5</td>
<td>35.5</td>
</tr>
<tr>
<td>Viscosity, KU</td>
<td></td>
<td>122–130</td>
<td>122–130</td>
</tr>
</tbody>
</table>

Test Data

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>RESULTS</th>
<th>TEST METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wind-driven rain test (98 mph)</td>
<td>Passes</td>
<td>TT-C-555B</td>
</tr>
<tr>
<td>Room-temperature flexibility, ½” (13 mm) mandrel</td>
<td>Passes</td>
<td>ASTM D 522</td>
</tr>
<tr>
<td>Artificial weathering, Xenon Arc, 4,000 hrs</td>
<td>No surface chalking, cracking, or loss of adhesion</td>
<td>ASTM G 155</td>
</tr>
<tr>
<td>Water Vapor Transmission 1653</td>
<td>Wet Cup Dry Cup</td>
<td>ASTM E 96 / ASTM D 1653</td>
</tr>
<tr>
<td>Grains/hr/ft²</td>
<td>11.85</td>
<td>1.56</td>
</tr>
<tr>
<td>Perms</td>
<td>28.6</td>
<td>3.77</td>
</tr>
<tr>
<td>Perm inches</td>
<td>0.23</td>
<td>0.04</td>
</tr>
<tr>
<td>CO₂ diffusion resistance, at 10 mils DFT</td>
<td>1,660,000 (µ CO₂)</td>
<td>PR EN 1062-6</td>
</tr>
<tr>
<td>Dirt pick-up, 95% (2 months)</td>
<td>&gt; 100 (0.7)</td>
<td>ASTM D 4541</td>
</tr>
</tbody>
</table>

Test results are typical values obtained under laboratory conditions. Reasonable variations can be expected.

Yield

Approximate Coverage Rates

<table>
<thead>
<tr>
<th>SUBSTRATE</th>
<th>FT/GAL (M²/L) PER COAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Troweled stucco</td>
<td>60–80 (1.5–2.0)</td>
</tr>
<tr>
<td>Blown on stucco</td>
<td>60–80 (1.5–2.0)</td>
</tr>
<tr>
<td>Block*</td>
<td>50–60 (1.2–1.5)</td>
</tr>
<tr>
<td>Brick</td>
<td>60–80 (1.5–2.0)</td>
</tr>
<tr>
<td>Concrete</td>
<td>70–90 (1.7–2.2)</td>
</tr>
</tbody>
</table>

*Two coats of MasterProtect HB 300SB are required, or 1 coat MasterProtect FL 749 followed by 1 coat MasterProtect HB 300SB.

Yield

Wet and Dry Film Thickness

<table>
<thead>
<tr>
<th>FT/GAL (M²/L) PER COAT</th>
<th>AVERAGE DRY FILM MILLS (MM)</th>
<th>AVERAGE WET FILM MILLS (MM)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SMOOTH</td>
<td>FINE</td>
</tr>
<tr>
<td>60 (1.47)</td>
<td>9–10 (0.23–0.25)</td>
<td>13–14 (0.33–0.36)</td>
</tr>
<tr>
<td>80 (1.96)</td>
<td>7–8 (0.18–0.20)</td>
<td>10–11 (0.25–0.28)</td>
</tr>
<tr>
<td>100 (2.45)</td>
<td>5–6 (0.13–0.15)</td>
<td>8–9 (0.20–0.23)</td>
</tr>
</tbody>
</table>

NOTE: Coverage rates are theoretical on smooth-surfaced, properly primed substrates.

IMPORTANT: Warranty applications require a minimum 8 dry-mil (0.25 mm) film thickness. Use the above tables to calculate the required coverage rate and number of coats to achieve 8–10 dry mils (0.25 mm).
MIXING
1. Prior to use, mix MasterProtect HB 300SB at slow speed with drill and mixing paddle to ensure uniform color and aggregate disbursement and to minimize air entrapment.
2. In multi-pail applications, mix the contents of each new pail into the partially used previous pail to ensure color consistency and smooth transitions from pail to pail.

APPLICATION
1. MasterProtect HB 300SB is meant to be applied as a two-coat system, achieving a total dry-film thickness (DFT) of 8 mils (0.2 mm) minimum.
2. Apply MasterProtect HB 300SB by brush, spray, roller, or spray-and-backroll.
3. Maintain proper uniform wet-film thickness (WFT) during application to ensure the performance characteristics desired (see yield rates section).

FOR BEST PERFORMANCE
• MasterProtect HB 300SB is formulated for application to cool and damp surfaces. Surface and ambient temperature must be 35°F (2°C) or warmer with a frost-free surface. All frozen water in or on the surface must be thawed. Application may begin before the ambient temperature reaches 35°F (2°C) under the following conditions: ambient temperature is at least 25°F (-4°C) and rising and the temperature will exceed 35°F (2°C) for 4–6 hours after application is completed.
• Do not apply if rain is expected within 24 hours of application.
• DO NOT apply to exterior insulation and finish systems (EIFS).
• Not for immersion service.
• Not intended for use as a horizontal traffic-bearing coating.
• Apply a 4 by 4 ft (1.2 by 1.2 m) test area to verify acceptable color, texture and adhesion before proceeding with any project. The test method for measuring adhesion is ASTM D 3359, Measuring Adhesion by Tape Method A. On the 0–5 scale, a minimum adhesion rating of 4A is required.
• Color formulas containing organic colorants are susceptible to fading in exterior applications. Refer to Technical Support for guidance.
• Do not thin the material.
• For professional use only; not for sale to or use by the general public.
• Make certain the most current versions of product data sheet and SDS are being used; visit www.master-builders-solutions.basf.us to verify the most current versions.
• Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

DRYING TIME
Times assume 70°F (21°C) and 50% relative humidity.
To recoat: minimum of 6 hours.
Lower surface or air temperatures and higher relative humidity will extend the drying time.

CLEAN UP
Clean all tools and equipment immediately with warm soapy water. Cured material may be removed by mechanical means.

ROLLER
1. Use a quality ¾–1¼” nap roller cover.
2. Completely saturate the roller and keep it loaded with the coating to build the required mils. Never dry roll.
3. Cross roll, maintaining a wet edge, to achieve uniform thickness. Backroll in one direction for consistent appearance.

SPRAY
1. Equipment is available for spraying all grades of MasterProtect HB 300SB. For fine texture, it is necessary to use a heavy-duty sprayer designed for the application of coatings that contain sand particles. Contact equipment manufacturer for further recommendations.
2. Backrolling in one direction after spray application is recommended to achieve uniform texture and film thickness.

BRUSH
1. Application by brush is recommended only for small inaccessible areas, e.g., on touch-ups.
2. On open-textured surfaces, thoroughly work coating into surface texture or pores to fill completely. Flow the coating onto surface using straight strokes.
3. Use stiff-fiber or nylon short-bristled brush.
HEALTH, SAFETY AND ENVIRONMENTAL
Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting www.master-builders-solutions.basf.us, e-mailing your request to basfscst@basf.com or calling 1(800)433-9517. Use only as directed. For medical emergencies only, call ChemTrec® 1(800)424-9300.

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