

MasterProtect[®] HB 300SB

Waterborne, high-build, modified acrylic waterproof coating

FORMERLY SUPER COLORCOAT™ VOC

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

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

SUBSTRATES

- Concrete
- Masonry
- Stucco
- Existing Coatings

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.

Technical Data

Composition

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

Compliances

- Alberta Transportation - Type 3 sealer

Typical Properties

PROPERTY	VALUE	
	TEXTURED	SMOOTH
Weight, lbs/gal (kg/L)	12.4–12.7 (1.49–1.54)	10.7–11.0 (1.28–1.32)
Solids, %		
By weight	67.7	51.4
By volume	49.5	35.5
Viscosity, KU	122–130	122–130

Yield

Approximate Coverage Rates

SUBSTRATE	FT ² /GAL (M ² /L)
	PER COAT
Troweled stucco	60–80 (1.5–2.0)
Blown on stucco	60–80 (1.5–2.0)
Block*	50–60 (1.2–1.5)
Brick	60–80 (1.5–2.0)
Concrete	70–90 (1.7–2.2)

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

Test Data

PROPERTY	RESULTS	TEST METHOD
Wind-driven rain test (98 mph)	Passes	TT-C-555B
Room-temperature flexibility, ½" (13 mm) mandrel	Passes	ASTM D 522
Artificial weathering, Xenon Arc, 4,000 hrs	No surface chalking, cracking, or loss of adhesion Color change: ΔE < 5.0	ASTM G 155
Water Vapor Transmission 1653		ASTM E 96 / ASTM D 1653
	Wet Cup Dry Cup	
Grains/hr/ft ²	11.85 1.56	
Perms	28.6 3.77	
Perm inches	0.23 0.04	
CO₂ diffusion resistance, at 10 mils DFT	1,660,000 (μ CO ₂) 43" (1092 mm) equivalent concrete thickness	PR EN 1062-6
Pull-off adhesion, psi (MPa)	> 100 (0.7)	ASTM D 4541
Dirt pick-up, (2 months)	95%	ASTM D 3719
Algae resistance	No growth	ASTM D 5589

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

Yield

Wet and Dry Film Thickness

FT ² /GAL (M ² /L) PER COAT	AVERAGE DRY FILM MILS (MM)		AVERAGE WET FILM MILS (MM)
	SMOOTH	FINE	
60 (1.47)	9–10 (0.23–0.25)	13–14 (0.33–0.36)	26–27 (0.66–0.68)
80 (1.96)	7–8 (0.18–0.20)	10–11 (0.25–0.28)	20–21 (0.51–0.53)
100 (2.45)	5–6 (0.13–0.15)	8–9 (0.20–0.23)	16–17 (0.41–0.43)

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).
4. Always work to a natural break and maintain a wet edge during application.
5. For uniformity of color and texture, application techniques must be consistent throughout the project.

ROLLER

1. Use a quality $\frac{3}{4}$ – $1\frac{1}{4}$ " 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.

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.

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.com/en-us to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by Master Builders Solutions personnel are for the purpose of making

technical recommendations only and not for supervising or providing quality control on the jobsite.

- Keep pails covered when not in use or when spraying to reduce the potential for skinning.

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.com/en-us, e-mailing your request to mbsbcst@mbcc-group.com or calling 1(800)433-9517. Use only as directed.

IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.

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