

MasterProtect[®] HB 200

Water-based, 100% acrylic smooth waterproof coating

FORMERLY THOROCCOAT[®] 200

PACKAGING

5 gallon (18.9 L) pails

YIELD

See chart 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 100 g/L
less water and exempt solvents.

DESCRIPTION

MasterProtect HB 200 is a 100% acrylic, smooth waterproof coating designed for airless spray application.

PRODUCT HIGHLIGHTS

- Airless spray application speeds production and reduces turnaround time
- 100% acrylic to protect and waterproof commercial and residential buildings
- Resists wind-driven rain, helps prevent water penetration into the substrate
- Breathable to allow water vapor to escape
- Excellent adhesion, bonds securely to substrate for long-term durability
- UV resistance provides excellent color retention for a long lasting attractive finish
- Excellent color retention for maintaining bright colors without fading over time
- Freeze/thaw resistant, suitable for cold climates
- Low VOC content for broad compliance across all regions

APPLICATIONS

- Exterior
- Vertical and overhead surfaces
- Above grade
- Protecting and waterproofing

SUBSTRATES

- Concrete
- Masonry
- Cement Plaster
- Stucco
- EIFS
- Existing Coatings

HOW TO APPLY

SURFACE PREPARATION

1. Surfaces should be clean and sound and free of all bond-inhibiting contaminants.
2. Concrete substrates should be fully cured.
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 200 contains water, acrylic emulsion, fillers, and other proprietary ingredients.

Test Data

PROPERTY	RESULTS	TEST METHOD
Density, lbs/gal (kg/L)	11.3–12.3 (1.35–1.47)	ASTM D 1475
Solids, %		ASTM D 5201
By weight	56.3	
By volume	39	
Viscosity, KU	102–103	ASTM D 562 (Stormer)
Light reflectance, %	> 91	ASTM E 1347
Gloss	3.0	ASTM D 523
Resistance to wind-driven rain	Meets requirement – no water penetration	TT-C-555B
Artificial weathering and UV resistance, Xenon Arc, Type B; 5,000 hrs	Passed	ASTM G 26 Passed
Freeze/thaw resistance, 50 cycles	Passed	ICBO Method
Water-vapor permeance, perms	25	ASTM E 96
Salt spray (fog) resistance, 300 hrs	Passed	ASTM B 117
Flexibility, 1" mandrel	No cracking	ASTM D 522
Impact resistance, in-lbs		ASTM D 2794
Direct	82	
Reverse	78	
Fungus resistance	No growth; meets requirement	ASTM D 3273
Surface burning characteristics		ASTM E 84
Flame Spread	0	
Smoke	5	
Flash Point, ° F (° C)	> 200 (93)	ASTM D 56 Tag Closed Tester
Algae resistance	No growth	ASTM D 5589

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

Yield

RATE FT ² /GAL (M ² /L)	WET FILM MILS (MM)	DRY FILM MILS (MM)
150 (3.7) Re-coat only	11 (0.3)	4 (0.102)
125 (3.0)	13 (0.33)	5 (0.127)
75 (1.8)	22 (0.559)	8 (0.203)

MIXING

1. Prior to use, mix MasterProtect HB 200 at slow speed with drill and mixing paddle to ensure uniform color 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. When MasterProtect HB 200 is intended to provide waterproofing, it should be applied as a two-coat system, achieving a total dry-film thickness (DFT) of 10–16 mils (0.25–0.4 mm). For re-coat applications one coat at 4–8 mils (0.1–0.2 mm) DFT. On porous substrates, texture and color may effect the hide and mils thickness of the re-coat and may require an additional coat. A mock-up area should be conducted to confirm coating consistency.
2. Apply MasterProtect HB 200 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, 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 MasterProtect HB 200. Contact equipment manufacturer for further recommendations.
2. Backrolling in one direction after spray application is recommended to achieve uniform film thickness.

BRUSH

1. Application by brush is recommended only for small inaccessible areas, e.g., on touch-ups.
2. Use only a nylon brush.

DRYING TIME

Times assume 70 °F (21 °C) and 50% relative humidity.

To touch: 1–2 hours

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 water. Cured material may be removed by mechanical means.

FOR BEST PERFORMANCE

- Do not apply when substrate or ambient temperature is 40 °F (4 °C) or below or is expected to fall below 40 °F (4 °C) within 24 hours after application.
- Do not apply if rain is expected within 24 hours of application.
- 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 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.

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 mbsbscst@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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