



We create chemistry

Technical Data Guide

9 | 09 97 23  
Coatings for  
Concrete and Masonry

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

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

**Yield**

RATE FT <sup>2</sup> /GAL (M <sup>2</sup> /L)	WET FILM MILS (MM)	DRY FILM MILS (MM)
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 12–16 mils (0.3–0.4 mm).
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 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 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.BASF.us](http://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.

---

#### 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](http://www.master-builders-solutions.basf.us), e-mailing your request to [basfbcst@basf.com](mailto:basfbcst@basf.com) or calling 1(800)433-9517. Use only as directed.

**For medical emergencies only,  
call ChemTrec® 1(800)424-9300.**

---

#### LIMITED WARRANTY NOTICE

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of BASF. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. BASF reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.