

## PRODUCT DATA SHEET

# Sika Thorocoat<sup>®</sup>-200

(formerly MProtect HB 200)

## WATER-BASED POLYVINYL ACETATE BONDING AGENT

## DESCRIPTION

Sika Thorocoat<sup>®</sup>-200 is a 100% acrylic, smooth water-proof coating designed for airless spray application.

## USES

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

### Substrates

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

## CHARACTERISTICS / ADVANTAGES

- 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

## PRODUCT INFORMATION

<b>Chemical Base</b>	Sika Thorocoat <sup>®</sup> -200 contains water, acrylic emulsion, fillers, and other proprietary ingredients.
<b>Packaging</b>	5 gallon (18.9 L) pails
<b>Shelf Life</b>	18 months when properly stored
<b>Storage Conditions</b>	Store in unopened containers in a clean, dry area. Keep from freezing.
<b>Density</b>	11.3–12.3 lbs/gal (1.35–1.47 kg/L) (ASTM D 1475)
<b>Flash Point</b>	> 200 ° F (93 ° C) (ASTM D 56 Tag Closed Tester)
<b>Viscosity</b>	102–103 KU (ASTM D 562 (Stormer))
<b>Solid Content by Weight</b>	56.3% (ASTM D 5201)
<b>Solid Content by Volume</b>	39% (ASTM D 5201)

## TECHNICAL INFORMATION

<b>Resistance to Impact</b>	Direct	82	(ASTM D 2794)
	Reverse	78	
<b>Resistance to UV Exposure</b>	Passed on Xenon Arc, Type B; 5,000 hrs		(ASTM G 26 Passed)
<b>Microbiological Resistance</b>	No growth		(ASTM D 5589)
<b>Permeability to Water Vapour</b>	25 perms		(ASTM E 96)
<b>Solar Reflectance</b>	> 91%		(ASTM E 1347)
<b>Freeze Thaw Resistance</b>	Passed 50 cycles		(ICBO Method)
<b>Gloss level</b>	3.0		(ASTM D 523)
<b>Salt spray resistance</b>	Passed on 300 hours		(ASTM B 117)
<b>Flexibility at low temperature</b>	No cracking on 1" mandrel		(ASTM D 522)
<b>Reaction to Fire</b>	Flame Spread	0	(ASTM E 84)
	Smoke	5	
<b>Microbiological Resistance</b>	No growth, it meets the requirement		(ASTM D 3273)
<b>Resistance to wind-driven rain</b>	Meets requirement – no water penetration		(TT-C-555B)

## APPLICATION INFORMATION

Yield	Rate ft <sup>2</sup> /gal (m <sup>2</sup> /L)	Wet Film mils (mm)	Dry Film mils (mm)
	150 (3.7)	11 (0.3)	4 (0.102)
Re-coat only			
	125 (3.0)	13 (0.33)	5 (0.127)
	75 (1.8)	22 (0.559)	8 (0.203)
<b>Drying Time</b>	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.		

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

- Do not apply when the 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 ac-

ceptable 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 the product data sheet and SDS are being used.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the job-site.

## SUBSTRATE PREPARATION

- Surfaces should be clean and sound and free of all bond-inhibiting contaminants.
- Concrete substrates should be fully cured.
- Repair any holes, and spalled and damaged concrete with appropriate Sika repair materials. Allow appro-

- appropriate cure time prior to coating.
- Remove any protruding concrete accessories and smooth out any surface irregularities.
  - High-pressure power wash surface (or abrasive blast on hard, dense surfaces) to create a profile of SP 3, per ICRI Guide 310.2.
  - Some stains may require chemical removal. Neutralize any cleaning compounds used and rinse with clean water.
  - Check the adhesion of old coatings according to ASTM D 3359, Measuring Adhesion by Tape Test Method A.
  - Remove any blisters or delaminated areas and sand edges to smooth rough areas and provide a transition to old paint areas.
  - Treat cracks greater than 1/32" with Sika Thorocoat®-746 Knife Grade or SikaWall® FL 748. Treat cracks larger than ¼" as expansion joints and fill with appropriate Sika sealant.
  - New CMU must have a base coat of Sika Thorocoat®-749 Block Filler.

### MIXING

- Prior to use, mix Sika Thorocoat®-200 at a slow speed with a drill and mixing paddle to ensure uniform color and to minimize air entrapment.
- 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

- When Sika Thorocoat®-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 affect 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.
- Apply Sika Thorocoat®-200 by brush, spray, roller, or spray-and-backroll.
- Maintain proper uniform wet-film thickness (WFT) during application to ensure the performance characteristics desired (see yield rates section).
- Always work to a natural break and maintain a wet edge during application.
- For uniformity of color, application techniques must be consistent throughout the project.

#### Roller

- Use a quality ¾–1¼" nap roller cover.
- Completely saturate the roller and keep it loaded with the coating to build the required mils. Never dry roll.
- Cross roll, maintaining a wet edge, to achieve uni-

form thickness. Backroll in one direction for a consistent appearance.

#### Spray

- Equipment is available for spraying Sika Thorocoat®-200. Contact the equipment manufacturer for further recommendations.
- Backrolling in one direction after spray application is recommended to achieve uniform film thickness.

#### Brush

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

### CLEANING OF TOOLS

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

### LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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