

## PRODUCT DATA SHEET

# Sika Thorocoat®-200 LR

(formerly MProtect HB 200LR)

LOW-VOC, HIGHLY REFLECTIVE, WATER-BASED MODIFIED ACRYLIC COATING FOR THE INTERIOR OF PARKING STRUCTURES

### PRODUCT DESCRIPTION

Sika Thorocoat®-200 LR is a one-coat water-based, modified acrylic coating with high light reflectance. When used on the interior walls and ceilings of parking garages, the result is reduced energy usage and increased safety and security.

### USES

- Interior
- Overhead and vertical
- Above grade
- Parking structures
- Ceilings
- Walls
- Beams
- Columns

### Substrates

- Concrete
- Brick
- Stucco
- Block
- Primed wood or metal
- Existing Coatings

### CHARACTERISTICS / ADVANTAGES

- High light reflectivity enhances the security of garages and increases lighting efficiency
- Airless spray application speeds production and reduces turnaround time
- Excellent adhesion, bonds securely to substrate for

- long-term durability
- Excellent color retention; maintains brightness without fading over time
- Freeze/thaw resistant, suitable for cold climates
- Low VOC content for broad compliance across all regions
- Water-based formula has a low odor
- No dirt pick-up to maintain an attractive appearance
- One-coat coverage helps return structures to service quickly
- Effective carbon dioxide diffusion barrier, protects embedded steel from corrosion

#### Product Data Sheet

Sika Thorocoat®-200 LR

September 2024, Version 02.01

020303110010000087

## PRODUCT INFORMATION

<b>Chemical Base</b>	Sika Thorocoat®-200 LR is a proprietary blend of acrylic polymers with special additives dispersed in a water base.		
<b>Packaging</b>	<ul style="list-style-type: none"> <li>▪ 5 gallon (18.93 L) pails</li> <li>▪ 55 gallon (208 L) drums; special order only</li> </ul>		
<b>Shelf Life</b>	1 year when properly stored		
<b>Storage Conditions</b>	Store in unopened containers in a cool, clean, dry area. Keep from freezing.		
<b>Density</b>	10.6 lbs (4.8 kg)		(ASTM D 1475)
<b>Solid content by mass</b>	51.4%		(ASTM D 2369)
<b>Solid content by volume</b>	44.8%		(ASTM D 5201)
<b>Viscosity</b>	122–131 KU at 77°F (25°C)		(ASTM D 562)
<b>pH-Value</b>	8.8–9.3		

## TECHNICAL INFORMATION

<b>Dry film thickness</b>	ft <sup>2</sup> /gal (M <sup>2</sup> /L)	Wet Mils (MM)	Dry Mils (MM)
	125 (3.1)	12–13 (0.30)	5.5 (0.14)
	150 (3.7)	10–11 (0.25)	4.5 (0.11)
	175 (4.3)	8–9 (0.20)	4.0 (0.10)
<b>Tensile Strength</b>	567 psi (3.9 MPa)		(ASTM D 412)
	<b>Elongation at break</b> 35%		(ASTM D 412)
<b>Solar Reflectance</b>	Sika Thorocoat®-200 LR	88	(ASTM E 1164)
	Light Concrete	52	
	Dark Concrete	27	
	Sika Thorocoat®-200 LR over Light Concrete	88	
	Sika Thorocoat®-200 LR over Dark Concrete	88	
<b>Permeability to Water Vapor</b>	Dry perms	2.1	ASTM D 1653
	Wet perms	15	ASTM E 96
<b>Lap Shear Strength</b>	R (equivalent air-layer thickness)	544 ft (166 m)	(PR EN 1062-6)
	Sc (equivalent concrete thickness)	18 ft (42 m)	
<b>Reaction to Fire</b>	Flame Spread	10	(ASTM E 84)
	Smoke Development	10	
Scale of 0–200; 0 is best			

## APPLICATION INFORMATION

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## 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.
- Sika Thorocoat®-200 LR is 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.
- 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 jobsite.

## SUBSTRATE PREPARATION

1. Surfaces should be clean, sound, and free of all bond-inhibiting contaminants.
2. Mildew and fungus must be completely removed before application of Sika Thorocoat®-200 LR.
3. Concrete substrates should be fully cured.
4. Repair any holes, spalled and damaged concrete with appropriate Sika repair materials. Allow appropriate cure time prior to coating.
5. Remove any protruding concrete accessories and smooth out any surface irregularities.
6. High-pressure power wash surface (or abrasive blast on hard, dense surfaces) to create a profile of SP 3, per ICRI Guide 310.2.
7. Some stains may require chemical removal. Neutralize

any cleaning compounds used and rinse with clean water.

8. Check adhesion of old coatings according to ASTM D 3359, Measuring Adhesion by Tape Test Method A.
9. Remove any blisters or delaminated areas and sand edges to smooth rough areas and provide a transition to old paint areas.
10. 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.
11. New CMU must have a base coat of Sika Thorocoat®-749 Block Filler.

## MIXING

1. Prior to use, mix Sika Thorocoat®-200 LR at a slow speed with a drill and mixing paddle to ensure uniform color dispersion and 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. Apply Sika Thorocoat®-200 LR by brush, spray, roller, or spray-and-backroll.
2. Maintain proper uniform wet-film thickness (WFT) during application to ensure the performance characteristics desired (see yield rates section).
3. Always work to a natural break and maintain a wet edge during application.
4. 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 a consistent appearance.

### Spray

1. Equipment is available for spraying Sika Thorocoat®-200 LR. Contact the 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.

## CLEANING OF TOOLS

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

## LEGAL DISCLAIMER

### Product Data Sheet

Sika Thorocoat®-200 LR

September 2024, Version 02.01

020303110010000087

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

**Sika Corporation**

201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: +1-800-933-7452  
Fax: +1-201-933-6225  
[usa.sika.com](http://usa.sika.com)



**Product Data Sheet**

Sika Thorocoat®-200 LR  
September 2024, Version 02.01  
020303110010000087

SikaThorocoat-200LR-en-US-(09-2024)-2-1.pdf

