

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.

WHERE TO USE

Sika Thorocoat®-200 LR is ideal for interior, overhead and vertical application in parking garages, on structural elements such as:

- Ceilings
- Walls
- Beams
- Columns

Substrates

- Concrete
- Brick
- Stucco

- CMUs
- Primed wood or metal
- Existing Coatings

CHARACTERISTICS / ADVANTAGES

- High light reflectivity enhances security in 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 colour 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 with low odour
- 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 INFORMATION

Composition / Manufacturing	Proprietary blend of acrylic polymers with special additives dispersed in a water base
Packaging	18.93 L (5 US gal) pail
Colour	High-reflectivity white
Shelf Life	24 months when properly stored
Storage Conditions	Store in unopened containers in a cool, clean, dry area. Keep from freezing.

Density	4.8 kg (10.6 lb)	(ASTM D1475)
pH-Value	8.8–9.3	
Volatile organic compound (VOC) content	<50 g/L	
Viscosity	122–131 KU at 25 °C (77 °F)	(ASTM D562)
Solid content by weight	51.4 %	(ASTM D2369)
Solid content by volume	44.8 %	(ASTM D5201)

TECHNICAL INFORMATION

Dry film thickness	m ² /L (ft ² /US gal)	Wet mil (mm)	Dry mil (mm)
	3.1 (125)	12–13 (0.30)	5.5 (0.14)
	3.7 (150)	10–11 (0.25)	4.5 (0.11)
	4.3 (175)	8–9 (0.20)	4.0 (0.10)
Tensile Strength	3.9 MPa (567 psi)		(ASTM D412)
Elongation at Break	35 %		(ASTM D412)
Permeability to Water Vapour	15 Perms, wet cup test		(ASTM E96)
Solar Reflectance	Sika Thorocoat®-200 LR	88	(ASTM E1164)
	Light concrete	52	
	Dark concrete	27	
	Sika Thorocoat®-200 LR over light concrete	88	
	Sika Thorocoat®-200 LR over dark concrete	88	
Diffusion resistance to carbon dioxide	R (equivalent air-layer thickness)	166 m (544 ft)	(PR EN 1062-6)
	Sc (equivalent concrete thickness)	42 m (18 ft)	
Reaction to Fire	Flame Spread	10	(ASTM E84)
	Smoke Development	10	
	Scale of 0–200: 0 is best		

APPLICATION INFORMATION

Drying time	2–4 hours at 21 °C (70 °F) and 50 % relative humidity. Lower surface or air temperatures and higher relative humidity will extend the drying time.
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BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

LIMITATIONS

Sika Thorocoat®-200 LR is intended exclusively for professional use and is not intended for sale to or use by the general public. 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. Ensure that the

most current versions of the product data sheet and SDS are being used.

- Do not apply when the substrate or ambient temperature is 4 °C (40 °F) or below or is expected to fall below 4 °C (40 °F) within 24 hours after application
- Sika Thorocoat®-200 LR is not intended for use as a horizontal traffic-bearing coating.
- Do not dilute. Addition of solvents will void any applicable Sika warranty.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Concrete substrates should be fully cured. Surfaces should be clean, sound, and free of all bond-inhibiting contaminants. If existing coatings are present, an adhesion test in accordance with ASTM D3359, "Measurement of Adhesion by the Adhesive Tape Test—Method A," will be required.

SUBSTRATE PREPARATION

Repair any holes, spalled and damaged concrete with appropriate Sika® repair materials. Allow appropriate cure time prior to coating. Remove any protruding concrete accessories and smooth out any surface irregularities.

Treat cracks greater than 0.8 mm (1/32 in) with Sika Thorocoat® 748. Cracks larger than 6 mm (1/4 in) may be treated as expansion joints and filled with an appropriate Sika® sealant. New concrete masonry units (CMUs) must receive a base coat of Sika Thorocoat®-749 Block Filler.

High-pressure power wash surface (or abrasive blast on hard, dense surfaces) to create a surface profile of SP 3, as per ICRI Guide 310.2. Remove any blisters or delaminated areas and sand edges to smooth rough areas and provide a transition to old paint areas. Mildew and fungus must be completely removed before application of Sika Thorocoat®-200 LR. Some stains may require chemical removal. Neutralize any cleaning compounds used and rinse with clean water.

MIXING

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

Note: In multi-pail applications, mix the contents of each new pail into the partially used previous pail to ensure colour consistency and smooth transitions from pail to pail.

APPLICATION

Before starting the work, apply a 1.2 x 1.2 m (4 x 4 ft) test area to verify acceptable colour, texture, and adhesion before proceeding. The test method for measuring adhesion is *ASTM D3359: Measuring Adhesion by Tape Method A* (on the 0–5 scale, a minimum adhesion rating of 4A is required).

Apply Sika Thorocoat®-200 LR may be applied by brush, spray, roller, or spray-and-backroll. Maintain proper uniform wet-film thickness (w.f.t.) during application to ensure the performance characteristics desired. Always work to a natural break and maintain a wet edge during application.

Note: To maintain uniformity of colour, application techniques must be consistent throughout the project.

Roller

Use a quality 19–32 mm (3/4–1 1/4 in) nap roller cover. Completely saturate the roller and keep it loaded with the coating to build the required mil thickness. Never dry roll. Cross roll, maintaining a wet edge, to achieve uniform thickness. Backroll in one direction for a consistent appearance.

Spray

Equipment is available for spraying Sika Thorocoat®-200 LR. 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 or for touch-ups. Use only a nylon brush.

CLEAN UP

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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