

PRODUCT DATA SHEET

Sika Thorocoat[®]-250

(formerly MProtect C 250)

WATER-BASED 100% ACRYLIC COATING

PRODUCT DESCRIPTION

Sika Thorocoat[®]-250 is a smooth, water-based, 100% acrylic primer and coating for concrete and masonry. It provides long-term protection against wind-driven rain, fungus, and mildew growth.

USES

- Exterior
- Vertical and overhead surfaces
- Above grade
- Protection and aesthetics

Substrates:

- Exterior
- Vertical and overhead surfaces
- Above grade
- Protection and aesthetics

CHARACTERISTICS / ADVANTAGES

- 100% acrylic formula forms a smooth, durable film with excellent long-term adhesion
- Resists wind-driven rain, helping prevent water penetration
- Breathable to permit water vapor to escape
- UV resistance provides excellent color retention for a long-lasting, attractive finish
- Low VOC content for broad compliance to local and regional regulations
- Can be used as an acrylic primer. Provides uniform background color before top coat applications

PRODUCT INFORMATION

Chemical Base	Sika Thorocoat [®] -250 contains water, acrylic emulsion, fillers, and other proprietary ingredients.	
Packaging	5 gallon (18.9 L) pails	
Shelf Life	18 months when properly stored	
Storage Conditions	Store in unopened containers in a clean, dry area. Protect from freezing.	
Density	11.8 lbs/gallon (1.41 kg/L)	(ASTM D 1475)
Solid content by mass	56.5%	(ASTM D 5201)
Solid content by volume	38%	(ASTM D 5201)

TECHNICAL INFORMATION

Flexural Strength	Passed	(ASTM D 1737) 1/4" mandrel
Resistance to wind-driven rain	Meets requirement – no water penetration when applied in 2 coats or in 1 coat over Sika Thorocoat®-749 Block Filler	(TT-C-555B)
Permeability to Water Vapor	19 perms	(ASTM E 96)
Microbiological Resistance	Mildew resistance Meets requirement – no growth at 21 days at 28 °C (<i>Aspergillus niger</i>)	(TT-P-29G, Federal Standard 141 B, Method 6271)
	Algae resistance No growth	(ASTM D 5589)
UV Exposure	Passed	(ASTM G 26) Xenon Arc, 5,000 hours
Resistance to Weathering	Passed	(ASTM G 26) Xenon Arc, 5,000 hours

APPLICATION INFORMATION

Coverage	Rate FT ² /GAL (M ² /L)	Wet Film MILS (MM)	Dry Film MILS (MM)
	175–275 (4.30–6.75)	N/A	N/A
As a primer	250 (6.1)	6 (0.15)	2 (0.05)
Re-coat only	200 (4.8)	8 (0.2)	3 (0.08)
	100 (2.4)	16 (0.41)	6 (0.15)

Drying Time

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

- To touch: 1 – 2 hours
- To recoat: 2 – 4 hours
- To full cure: 5 days

Lower surface or air temperatures and higher relative humidity can extend dry time.

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.

LIMITATIONS

For Best Performance

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

Product Data Sheet

Sika Thorocoat®-250

September 2024, Version 02.01

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to verify the most current version.

- When used as a primer, the coverage rate is 175–275 ft²/gal (4.30–6.75 m²/L). Coverage will vary depending on surface texture and porosity.
- 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.

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

SUBSTRATE 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 Sika 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 SP3, 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. Sika Thorocoat®-250 is not a crack filling or crack bridging coating. For substrates with cracks, refer to Sika Thorolastic®-750 product data sheet.
10. Chalky surfaces should be primed with Sika Thorocoat®-100 Primer or Sika Thorocoat®-200 Primer.

MIXING

1. Prior to use, mix Sika Thorocoat®-250 at slow speed with a 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 pail to ensure color consistency and smooth transitions from pail to pail.

APPLICATION

Application as a Primer

1. Apply Sika Thorocoat®-250 by brush, spray, roller, or spray-and-backroll
2. Maintain primer uniform wet-film thickness (WFT) to ensure proper sealing of substrates.

Application as a Topcoat

1. Apply Sika Thorocoat®-250 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 3/4 – 1-1/4" 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 Sika Thorocoat®-250. 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 nylon brushes.

CLEANING OF TOOLS

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

LEGAL DISCLAIMER

- 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 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.

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