

PRODUCT DATA SHEET

Sika Thorolastic®-750

(formerly MProtect EL 750)

WATER-BASED, 100% ACRYLIC, ELASTOMERIC, WATERPROOF COATING

DESCRIPTION

Sika Thorolastic®-750 is a water-based, high-build, elastomeric, 100% acrylic waterproof coating for above-grade concrete, masonry, stucco, and EIFS.

USES

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

Substrates

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

CHARACTERISTICS / ADVANTAGES

- Available in a broad range of colors and textures for design versatility
- Resists wind-driven rain, helps prevent water penetration into the substrate
- Breathable to allow water vapor to escape
- High elongation and recovery for durable performance over dynamic cracks.
- Excellent adhesion, bonds securely to substrate for long-term durability
- UV resistance provides excellent color retention for a long-lasting attractive finish
- Excellent hiding power
- Textured formulations help improve the aesthetics of irregular substrates
- Effective carbon dioxide diffusion barrier protects embedded steel from corrosion
- Low VOC content for broad compliance across all regions
- Flexibility at very low temperatures makes it suitable for all climates
- Resistant to dirt pickup

PRODUCT INFORMATION

Chemical Base	Sika Thorolastic®-750 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. Keep from freezing.	
Density	11.2–12.2 bs/gal (1.34–1.46 kg/L)	(ASTM D 1475)
Viscosity	127-135 KU	(ASTM D 562 (Stormer))
Solid Content by Weight	64.2%*	(ASTM D 5201)
Solid Content by Volume	50%*	(ASTM D 5201)

*Value for white

TECHNICAL INFORMATION

Dry film thickness	Theoretical Film Thicknesses*		
	Coverage Rate ft ² /gal (m ² /L)	Wet mils (mm)	Dry mils (mm)
	50 (1.2)	32 (0.813)	16 (0.406)
	80 (2)	20 (0.508)	10 (0.254)
	100 (2.4)	16 (0.406)	8 (0.203)
	The actual DFT to achieve the stated performance properties is 16 mils (0.406 mm).		
	*Coverages are estimates for smooth, dense concrete. Coverages will vary on porous or textured surfaces.		
Elongation at Break	220psi (1.5MPa)		(ASTM D 412)
	Ultimate Elongation		
	344%		(ASTM D 412)
	Elongation Recovery		
	After 10 minutes	96.9%	(ASTM D 412)
	After 24 hours	98.4%	
Crack Bridging Ability	-77 °F (-60 °C)	12 mils (0.3 mm)	(PR EN 1062-7)
	32 °F (0 °C)	19.5 mils (0.5 mm)	
	73 °F (23 °C)	27.5 mils (0.7 mm)	
Resistance to Weathering	Accelerated Weathering		
	Passes, 5,000 hours		(ASTM G 23, Type D)
	Chalking		
	Passes, 5,000 hours		(ASTM D 4214)
Natural Weathering	Dirt Pick-up		
	94.33% after 6 months exposure		(ASTM D 3719)
Microbiological Resistance	Mildew Resistance		
	No growth		(ASTM D 3273 / 3274)
	Algae Resistance		
	No growth		(ASTM D 5589)
Permeability to Water Vapour	12 perms		(ASTM D 1653)
Diffusion Resistance to Carbon Dioxide	R (equivalent air layer thickness), ft (m)	263 (80)	(PR EN 1062-6)
	Sc (equivalent concrete thickness), in (cm)	8 (20)	
Adhesion in Peel	Pull-off strength adhesion		
	210 psi (1.4 MPa)		(ASTM D 4541)
Freeze Thaw Resistance	Passes, 60 cycles		(ASTM C 67)
Salt spray resistance	Passes, 300 hrs		(ASTM B 117)
Flexibility at low temperature	-30 °F (-34 °C)	1/8 in (3mm) mandrel	(ASTM D 522)
Resistance to wind-driven rain	Passes		(TT-C-555B)
Light fastness of colour pigments	Passes, 5,000 hours		(ASTM D 1729)

APPLICATION INFORMATION

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

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BUILDING TRUST



To touch: 6 hours

To recoat: minimum of 12 hours

Lower surface or air temperatures and higher relative humidity will extend the drying time.

Sika Thorolastic®-750 requires ultraviolet (UV) light to cure.

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.
- Do not use on interior applications, undersides of balconies, soffits, below-grade applications, or for immersion service.
- Do not use where there may be hydrostatic water transfer from the backside of the substrate.
- Do not apply to improperly sealed substrates that are subject to rising dampness or migrating moisture.
- Not intended for use as a horizontal traffic-bearing coating.
- Elongation and crack-bridging abilities are reduced with textured grades.
- The application of nonelastomeric topcoats could reduce the performance properties of Sika Thorolastic®-750.
- 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.
- 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.
- 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

1. Surfaces should be clean and sound and free of all

2. 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 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 the adhesion of old coatings according to ASTM D 3359, Measuring Adhesion by Tape Test Method A.
8. Remove any blisters or delaminated areas sand edges to smooth rough areas and provide a transition to old paint areas.
9. Treat cracks greater than 1/32" with Sika Thoro-coat®-746 Knife Grade or SikaWall® FL 748. Treat cracks larger than 1/4" as expansion joints and fill with appropriate Sika sealant.
10. New CMU must have a base coat of Sika Thoro-coat®-749 Block Filler.

MIXING

1. Prior to use, mix Sika Thorolastic®-750 at a slow speed with a drill and mixing paddle to ensure uniform color and texture, 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. Sika Thorolastic®-750 is meant to be applied as a two-coat system, achieving a total dry-film thickness (DFT) of 16–20 mils (0.4–0.5 mm).
2. Apply Sika Thorolastic®-750 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 and texture, 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 all grades of Sika Thorolastic®-750. For fine and coarse textures, it is necessary to use a heavy-duty sprayer designed for the application of coatings that contain sand particles. Contact the equipment manufacturer for further recommendations.
2. For smooth and fine grades, backrolling in one direction after spray application is recommended to achieve uniform texture and 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 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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