

PRODUCT DATA SHEET

Sika Thorolastic®-750

(formerly MasterProtect® EL 750)

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

PRODUCT 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) |

| | | |
|-------------------------|------------------|------------------------|
| Solid content by mass | 64.2%* | (ASTM D 5201) |
| Solid content by volume | 50%* | (ASTM D 5201) |
| | *Value for white | |
| Viscosity | 127-135 KU | (ASTM D 562 (Stormer)) |

TECHNICAL INFORMATION

| | | |
|--------------------------------|--|-----------------------------------|
| Dry film thickness | Theoretical Film Thicknesses* | |
| | Coverage Rate ft ² /gal (m ² /L) | Dry mils (mm) |
| | 50 (1.2) | 16 (0.406) |
| | 80 (2) | 10 (0.254) |
| | 100 (2.4) | 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) |
| Adhesion in peel | Pull-off strength adhesion | |
| | 210 psi (1.4 MPa) | (ASTM D 4541) |
| Low Temperature Bend | -30 °F (-34 °C) | 1/8 in (3mm) mandrel (ASTM D 522) |
| Resistance to wind-driven rain | Passes | (TT-C-555B) |
| Permeability to Water Vapor | 12 perms | (ASTM D 1653) |
| Lap Shear Strength | R (equivalent air layer thickness), ft (m) | 263 (80) (PR EN 1062-6) |
| | Sc (equivalent concrete thickness), in (cm) | 8 (20) |
| Microbiological Resistance | Mildew Resistance | |
| | No growth | (ASTM D 3273 / 3274) |
| | Algae Resistance | |
| | No growth | (ASTM D 5589) |
| 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) |

| | | |
|--|---------------------|---------------|
| Light fastness of colour pigments | Passes, 5,000 hours | (ASTM D 1729) |
| Freeze-Thaw Stability | Passes, 60 cycles | (ASTM C 67) |
| Salt spray resistance | Passes, 300 hrs | (ASTM B 117) |

APPLICATION INFORMATION

Drying Time

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

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

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.
- 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 jobsite.

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 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 TapeTest 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 Thorocoat®-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 Thorocoat®-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 DISCLAIMER

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

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Product Data Sheet

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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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