

PRODUCT DATA SHEET

Sika Thoroseal® Plus Concrete & Masonry Waterproofer

CEMENT-BASED WATERPROOF COATING FOR CONCRETE, BRICK & MASONRY

PRODUCT DESCRIPTION

Sika Thoroseal® Plus Concrete & Masonry Waterproofer is a dry polymer-modified cement-based coating used for sealing and protecting concrete and masonry substrates against water dampness and seepage with a long lasting, semi-smooth gray waterproofing finish.

USES

- Concrete & masonry walls
- Foundations
- Basements
- Retaining walls
- Block, brick, and stone surfaces

CHARACTERISTICS / ADVANTAGES

- Cement-based
- Fast and easy application
- One component- just add to water
- Resists positive & negative hydrostatic pressure
- Crack bridging up to 1/32 in. wide
- Can be applied to damp surfaces
- Protects against water penetration
- Protects reinforcing steel
- Mold & mildew resistant
- Provides resistance from acid rain
- Interior/exterior and above/below grade applications
- Excellent freeze/thaw resistance

PRODUCT INFORMATION

Packaging	35 lb (15.9 kg) pail
Color	Gray
Shelf Life	1 year in the original, unopened container.
Storage Conditions	Store in unopened containers and keep in a clean, dry condition protected from rain, dew and humidity
Density	125 lbs/ft ³ (2,002 kg/m ³ when cured) (Lab Method)

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TECHNICAL INFORMATION

Compressive Strength	<u>3,714 psi</u>	<u>(1 day)</u>	(ASTM C109)
	<u>5,465 psi</u>	<u>(7 days)</u>	
Tensile Adhesion Strength	<u>> 200 psi</u>	<u>(7 days)</u>	(ASTM D4541)

APPLICATION INFORMATION

Coverage	First coat: 160ft ² per 35 lb pail Second coat: 320ft ² per 35 lb pail The yield of the mixed product will depend on the texture and porosity of the surface.		
Pot Life	30- 40 minutes, depending on temperature and relative humidity		
Set Time	4.25 hrs		(ASTM C266)
Final set time	6 hours		(ASTM C266)

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

- Do not retemper the material.
- Do not apply over frozen or frosted surfaces.
- **DO NOT** apply on painted surfaces.
- Sika Thoroseal® Plus Concrete & Masonry Waterproofer should not be applied when active hydrostatic water is moving through the substrate or voids.
- Patch all holes and cracks with Sika DRYLOK® Fast Plug® before applying Sika Thoroseal® Plus Concrete & Masonry Waterproofer.
- If negative hydrostatic pressure is present it may be required to apply both coats at a rate of a 160 ft² per 35 lb pail.
- If there are sulfate crystals in the substrate or there is any concern that the substrate may have sulfates (e.g. in the treatment of construction materials made from clay), check with Sika's Technical Department for the applicability of the product's usage.
- An adhesion field test should be conducted, applying a small amount of the material and allowing a minimum of 7 days to cure.
- The adequate application of the product is the responsibility of the user.

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

SURFACE PREPARATION

Surface must be clean and structurally sound. Remove all dirt, loose material, oil, grease, and unsound concrete. The best method for removing any paints, oils, grease, curing compounds, or any other contaminants is through high-pressure water-blasting.

Extremely smooth or glazed surfaces must be roughened through either mechanical abrasion (ie. sanding or grinding) or chemical processing (ie. etching) to promote good mechanical adhesion.

All static cracks or breaks, joints or honeycombing larger than 1/32" should be cut out and repaired with Sika DRYLOK® Fast Plug® Hydraulic Cement or other Sika repair material.

Completely dampen the substrate with water before beginning the application to avoid premature setting of Sika Thoroseal® Plus Concrete & Masonry Waterproofer.

MIXING

- Mix only with clean potable water.
- Sika Thoroseal® Plus Concrete & Masonry Waterproofer may be mixed manually or mechanically with a slow-speed (400-600 rpm) drill (1/2"- 3/4" drill recommended) and mixing paddle.
- Gradually add the powder to the water while the drill is running. A 35 lb pail of Sika Thoroseal® Plus Concrete & Masonry Waterproofer requires approximately 1.2 gal (≈ 5 qt.) of clean water.
- Mix the material until a consistency of smooth, heavy batter is achieved (2-3 minutes). Allow the mixture to rest undisturbed for approximately 10 minutes. Remix the wet material (about 1 minute) and then apply to the substrate, when remixing a small amount of mixing water may be added for better workability.

APPLICATION

- Do not apply Sika Thoroseal® Plus Concrete & Masonry Waterproofer when the room temperature or the substrate temperature is under 40°F (5°C), or when the temperature within the following 24 hours of the application is going to be under 40°F (5°C).
- Sika Thoroseal® Plus Concrete & Masonry Waterproofer can be applied by masonry brush, broom, or traditional mortar spraying equipment. It is recommended that the first coat be applied with a brush to work it thoroughly into the substrate to completely fill and cover all voids, holes, and non-moving cracks.
- For application on treads of the joints, it is recommended to trowel the area beforehand.

First coat or Priming Coat

- Completely dampen the substrate with water before the application starts to avoid premature setting of Sika Thoroseal® Plus Concrete & Masonry Waterproofer. Do not saturate the substrate, but keep it cool and damp throughout the application. If the surface to cover dries quickly or if the material over the substrate starts to drag, dampen the substrate again. Do not dilute the mixed material under any circumstance.
- In its first coat, Sika Thoroseal® Plus Concrete & Masonry Waterproofer should be applied at 160 ft² per 35 lb pail (0.22 lb/ft²).
- When Sika Thoroseal® Plus Concrete & Masonry Waterproofer is applied in negative hydrostatic pressure situations during the job, the first coat should be finished with vertical brush movements. This will allow the detection of small active voids that can be treated afterward with Sika DRYLOK® Fast Plug® before applying the second coat of Sika Thoroseal® Plus Concrete & Masonry Waterproofer.
- In any other case, the first coat of Sika Thoroseal® Plus Concrete & Masonry Waterproofer should be finished with horizontal movements.

Second Coat

- The first coat should be dampened before initiating the application of the second coat, avoiding any standing water on the surface. For the best performance use a low pressure hose that can atomize the water. If Sika Thoroseal® Plus Concrete & Masonry Waterproofer is applied in closed or badly ventilated areas, condensation of water may occur in the curing phase of the first coat. In that case, any standing water has to be removed from the surface.
- If Sika Thoroseal® Plus Concrete & Masonry Waterproofer is applied by brush or broom in the first coat, the second coat requires back brushing (perpendicular direction to the first coat) to achieve a good and uniform coating.
- The second coat may be spray applied using a hopper gun/sprayer.
- The second coat should be applied at 320 ft² per 35 lb pail (0.11 lb/ft²).

CURING TREATMENT

- In a dry environment, once the initial setting of the Sika Thoroseal® Plus Concrete & Masonry Waterproofer has started, the area must be sprayed or maintained damp. This operation should be carried out with care to avoid inconsistencies of color.
- In cold, humid, or poorly ventilated environments, curing time may be longer, and forced ventilation may be necessary to avoid condensation.
- Heat pump dehumidifiers should not be used during the first 28 days following the application.
- Protect the applied surface from rain until it has cured.

CLEANING OF TOOLS

Clean all tools and equipment immediately after their use with plenty of water. Cured material may only be

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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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