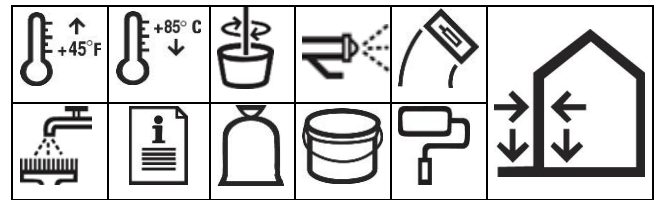


PRODUCT BULLETIN

Sto Watertight Coat

Product Number(s): 81241 Watertight Coat Grey
81242 Watertight Coat White



PRODUCT DESCRIPTION

Sto Watertight Coat is a waterproofing membrane with a low vapor permeability based on a unique combination of acrylic emulsion, Portland cement and fine fibers. Use it to waterproof above or below grade concrete and masonry, including foundations, block walls, balconies, parapets, planter boxes, non-potable water tanks, and fountains.

FEATURES	BENEFITS
Acrylic-Emulsion-Based	Improves bond to substrate; repels water; provides flexibility
Flexible	Bridges static hairline cracks
Breathable	Allows substrate to breathe naturally; can be used on grade
Fiber-Reinforced	Provides improved tensile strength
Solvent-Free	Environmentally friendly; tools clean up with water
Versatile Application	Can be applied using trowel, roller, brush or proper spray equipment
VOC Compliant	Meets South Coast Air Quality Management District (SCAQMD) Requirements

Packaging

5 gallon (19L) pail containing two components:
Component A: 2.3 gal. liquid (8.9 L)
Component B: 25 lb. bag (11.3 kg)

Coverage

Using 25 lbs. of Component B (trowel application): 88-100 ft² per unit, at 1/16 inch thick (8.2-9.3 m² per unit at 1.6 mm thick).
Using 20 lbs. of Component B (roller application): 110-125 ft² per unit, applied at 50 wet mils (10.2-11.6 m² per unit at 1.3 mm thick).

Coverage will vary depending on substrate condition, application technique, waste factor, final thickness, and other variables.

Shelf Life

12 months in original, unopened, properly stored container.

Storage

Store off the ground in a dry area, between 50 and 85°F (10 and 29°C) out of direct sun.

SURFACE PREPARATION

Remove loose and deteriorated material by high pressure (> 3000 psi [20.7 MPa]) water-blasting, sand-blasting. Make sure surfaces are sound, clean, dry, and free of all bond-inhibiting materials including oil, dust, dirt, laitance, efflorescence, form release agent, and standing water.

MIXING

Use both components at a preconditioned temperature of 70°± 5°F (21 ± 3°C).

Trowel Application: mix 2.3 gal. (8.9 L) of liquid Component A with 25 lbs (11.3 kg) of dry Component B

Roller Application: mix 2.3 gal. (8.9 L) of liquid Component A with 20 lbs (9.1 kg) of dry Component B

Mixing must be achieved mechanically using a slow-speed drill and a mixing paddle. Add dry Component B to wet Component A. Mix thoroughly for at least 3 minutes to a uniform, lump-free consistency. Once mixed, the working time is approximately 30-90 minutes, depending upon material, ambient and surface conditions.

Mixing may also be done in ½ batches if necessary.

APPLICATION

Apply only to sound and clean, dry, properly prepared, frost-free surfaces.

Apply using a stainless steel trowel with Sto Repair Mesh to reinforce areas such as: static hairline cracks, transitions between materials (i.e., concrete floor to CMU wall or EIFS trim to stucco wall), changes in plane (tops of knee walls and parapets). Immediately embed Sto Repair Mesh into the material. Smooth out any wrinkles in the mesh forcing it down and covering it with Sto Watertight Coat and allow to dry.

Then apply Sto Watertight Coat in one 1/16 inch (1.6 mm) thick coat with a stainless-steel trowel to waterproof the full surface and any areas previously reinforced with Sto Repair Mesh. Alternately, apply to a 1/16 inch (1.6 mm) total thickness using a spray device. Immediately trowel the product level. If applying at a rollable consistency, use a ¾" (19 mm) nap roller and apply at a minimum of 50 wet mils.

Apply two coats if needed to achieve a void and pinhole free surface.

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Curing/Drying

Allow a minimum drying time of 24 hours before over coating. Protect from rain, freezing, and continuous high humidity until completely dry.

Clean Up

Clean tools and equipment with water immediately after use. Cured material can only be removed mechanically.

LIMITATIONS

- Apply only when surface and ambient temperatures are 45°F (7°C) and rising or 85°F (29°C) and falling.
- Mix Component A and Component B only in the specified ratios. Never add water to the mixture.
- Cold or damp conditions retard drying and require additional time before over coating or opening to traffic.
- Not recommended for bridging joints or dynamic cracks in concrete or masonry.
- Not recommended for roofing applications or as a primary waterproofing over occupied space.
- Not recommended for use on wood decks or wood balconies.
- Not recommended for between slab waterproofing.

LIMITED WARRANTY

This product is subject to a written limited warranty which can be obtained free of charge from Sto Corp.

HEALTH & SAFETY

Warning: Causes eye and skin irritation.

Precautionary Statement: Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

FIRST AID MEASURES: Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Store locked up.

Spills: Collect with suitable absorbent material such as cotton rags.

Disposal: Dispose of in accordance with local, state or federal regulations.

Warning: KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Safety Data Sheet (SDS) on www.stocorp.com for further health and safety information.

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TECHNICAL DATA

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT*
Working Time (minutes)			30-90
Adhesion to Concrete (psi) [MPa]	ASTM D4541	7 days 28 days	150 [103] 177 [122]
Tensile Strength (psi) [MPa]	ASTM D412	w/o mesh w/ mesh	0.470 [3.24] 3800 [26.2]
Elongation at Break (%)	ASTM D412	w/o mesh w/ mesh	11.0 9.0
Flexibility, Mandrel Bend	ASTM D522	28 days	Passes 1/8" at 77 °F (3 mm at 25 °C)
Abrasion Resistance (grams weight loss)	ASTM D4060 Taber CS-10 wheel	3000 cycles 6000 cycles	0.20 0.34
Water Absorption (%)	ASTM D-570	24 hour immersion	4.5
Waterproofing hydrostatic pressure (psi) [MPa]	Lab Method	Untreated CMU Watertight Coat	1.45 [0.01] >101.5 [0.7]
Vapor Permeability (U.S. perms) [ng/Pa·s·m ²]	ASTM E96	Procedure B (wet) Procedure A (dry)	3.9 [220] 0.6 [33.1]
Chloride Ion Penetration (% Reduction)	Modified NCHRP-244	Measure	89.9
Rapid Chloride Permeability (coulombs)	ASTM C1202	Measure	550 (very low)
VOC (g/L)	This product complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for architectural coatings. VOC less than 50 g/L.		

* Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests.

<p>Sto Corp. 3800 Camp Creek Parkway Building 1400, Suite 120 Atlanta, GA 30331 Tel: 404 346 3666 Toll Free: 1 800 221 2397 Fax: 404 346 3119 www.stocorp.com</p>	<p>Revision Number: 1.3 Date: October 2023</p>	<p style="text-align: center;">ATTENTION</p> <p>This product is intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. It should be installed in accordance with those specifications and Sto's instructions. Sto Corp. disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building, for the nonperformance of adjacent building components or assemblies, or for other construction activities beyond Sto's control. Improper use of this product or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to this product, and to the structure of the building or its components. STO CORP. DISCLAIMS ALL WARRANTIES EXPRESSED OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH STO'S WARRANTY PROGRAMS WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME. For the fullest, most current information on proper application, clean-up, mixing and other specifications and warranties, cautions and disclaimers, please refer to the Sto Corp. website, www.stocorp.com</p>
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