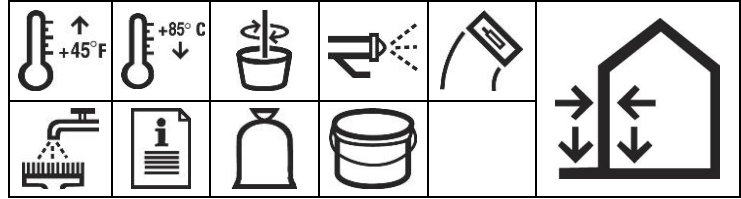


# Sto Watertight Coat

81241 Watertight Coat Grey  
81242 Watertight Coat White



Technical Data			
REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT
<b>Working Time</b> (minutes)			30-90
<b>Adhesion to Concrete</b> (psi) [MPa]	ASTM D-4541	7 days 28 days	150 [103] 177 [122]
<b>Tensile Strength</b> (psi) [MPa]	ASTM D-412	w/o mesh w/ mesh	0.470 [3.24] 3800 [26.2]
<b>Elongation at Break</b> (%)	ASTM D-412	w/o mesh w/ mesh	11.0 9.0
<b>Flexibility, Mandrel Bend</b>	ASTM D-522	28 days	Passes 1/8" at 77 °F (3 mm at 25 °C)
<b>Abrasion Resistance</b> (grams weight loss)	ASTM D-4060 Taber CS-10 wheel	3000 cycles 6000 cycles	0.20 0.34
<b>Water Absorption</b> (%)	ASTM D-570	24 hour immersion	4.5
<b>Waterproofing</b> hydrostatic pressure (psi) [MPa]		Untreated CMU Watertight Coat	1.45 [0.01] >101.5 [0.7]
<b>Vapor Permeability</b> (U.S. perms) [ng/Pa·s·m <sup>2</sup> ]	ASTM E-96	Procedure B (wet) Procedure A (dry)	3.9 [220] 0.6 [33.1]
<b>Chloride Ion Penetration</b> (% Reduction)	Modified NCHRP-244		89.9
<b>Rapid Chloride Permeability</b> (coulombs)	ASTM C-1202	Watertight Coat	550 (very low)
<b>VOC</b> (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.		

Typical values for material cured at 73F (23C) and 50% R.H.

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

### Coverage

88-100 ft<sup>2</sup> per unit, applied at 1/16 inch thick (8.2-9.3 m<sup>2</sup> per unit at 1.6 mm thick).

### Packaging

Component A: 2.3 gal. (8.9 L)  
[Packaged in 5 gal. (19 L) pail]  
Component B: 25 lb bag (11 kg)

### Shelf Life

12 months in original, properly stored, unopened container.

### Storage

Store in a dry area, between 50°F (10°C) and 85°F (29°C). Protect from direct sunlight, extreme heat [90°F (32°C)] and freezing.

Features	Benefits
<b>1 Acrylic-Emulsion-Based</b>	Ensures bond to substrate; repels water; provides flexibility
<b>2 Flexible</b>	Bridges static hairline cracks
<b>3 Breathable</b>	Allows substrate to breathe naturally; can be used on grade
<b>4 Fiber-Reinforced</b>	Provides improved tensile strength
<b>5 Solvent-Free</b>	Environmentally friendly; tools clean up with water
<b>6 Pre-Measured Packaging</b>	Provides improved job-site quality control; adds convenience and efficiency to mixing
<b>7 VOC Compliant</b>	Meets South Coast Air Quality Management District (SCAQMD) Requirements

# Sto Watertight Coat

## 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 and standing water.

## Mixing

Use both components at a preconditioned temperature of 70°± 5°F (21 ± 3°C). Use 2.3 gal. (8.9 L) of Component A per one 25 lb. (11 kg) of Component B. Alternatively, batch mix in 1/2 units.

a slow-speed drill and a mixing paddle. 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 must be achieved mechanically using

## Application

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

Apply in one 1/16 inch (1.6 mm) thick coat with a stainless-steel trowel. Alternately, apply to a 1/16 inch (1.6 mm) total thickness using a spray device. Immediately trowel the product level.

Use 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.

Using a stainless-steel trowel, smooth out any wrinkles in the mesh forcing it down and covering it with Sto Watertight Coat.

## 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.

## Health And Safety

### WARNING!

Causes eye and skin irritation.

**Precaution:** Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

### First AID:

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs:

Get medical advice/attention.

Wash contaminated clothing before reuse. Store locked up.

### Spills

Collect in an appropriate container. Uncured material may be removed with water.

### Disposal

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

### Warning

KEEP CONTAINERS 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](http://www.stocorp.com) for further health and safety information.

### Limited Warranty

THIS PRODUCT IS SUBJECT TO A WRITTEN LIMITED WARRANTY WHICH CAN BE OBTAINED FREE OF CHARGE FROM Sto Corp.

Refer to Sto Specifications for more complete information on proper use and handling of this product.

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### Attention

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](http://www.stocorp.com).