

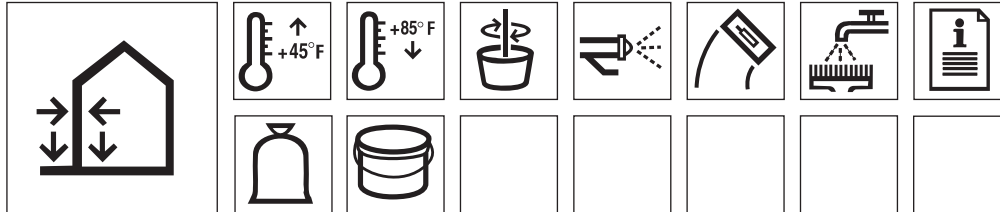
# Sto Watertight Coat

## CR241 Gray, CR242 White

# CR241/242

Division 3

1. waterproofing membrane
2. trowel-grade
3. fiber-reinforced
4. flexible



### Technical Data

REPORT	TEST METHOD	TEST RESULTS	METRIC EQUIV
<b>Working Time</b> (minutes)		30-90	
<b>Adhesion to Concrete</b> (psi)	ASTM D-4541	7 days 28 days	150 177 103 MPa 1.22 MPa
<b>Tensile Strength</b> (psi)	ASTM D-412	w/o mesh w mesh	0.470 3800 3.24 MPa 26.2 MPa
<b>Elongation</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" @ 77°F (3 mm @ 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)		Untreated CMU Watertight Coat	1.45 > 101.5 0.01 MPa 0.7 MPa
<b>Vapor Permeability</b> (U.S. perms)	ASTM E-96 Procedure B (wet) Procedure A (dry)		3.9 0.6 220 ng/Pa·m·s 33.1 ng/Pa·m·s
<b>Chloride Ion Penetration</b> (% Reduction)	Modified NCHRP Report 244		89.9
<b>Rapid Chloride Permeability</b> (coulombs)	ASTM C 1202	Watertight Coat	550 (very low)
<b>VOC</b> (g/L)	Calculated		28.3 (47.5*)

\*Less water and exempt solvents.

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

*Sto Watertight Coat is a fluid 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.*

#### Volume Yield

4 gal per unit (15 L)

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

#### Color

CR241 Gray, CR242 White

#### 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.

# CR241 Gray, CR242 White Sto Watertight Coat

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

## Surface Preparation

Remove loose or damaged material by sandblasting or high-pressure (> 3000 psi [20.7 MPa]) water-blasting. Make sure surfaces are sound,

clean 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.

Mixing must be achieved mechanically using 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.

## 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 CR218 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 CR218 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 overcoating. 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 overcoating 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

### Health Precautions

Component A is water-based. As with any chemical construction product, exercise care when handling. Component B contains Portland cement. Avoid breathing dust.

### Safety Precautions

Use adequate ventilation. Use of a NIOSH/MSA-approved dust, respirator, safety goggles and protective gloves is recommended.

### First Aid

SKIN CONTACT: Wash thoroughly with soap and water. EYE CONTACT: Flush immediately with water for 10-15 minutes and contact a physician.

RESPIRATORY PROBLEMS: Remove affected person to fresh air immediately and contact a physician.

HYGIENE: Wash hands immediately after use. Wash clothing before reuse.

### 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 Material Safety Data Sheet 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., 3800 Camp Creek Parkway, Building 1400, Suite 120, Atlanta, GA 30331; Tel: 404-346-3666; Fax: 404-346-3119

### 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 EXPRESS 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).

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