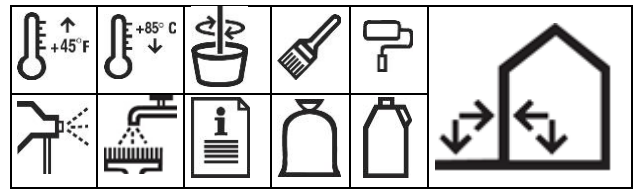


PRODUCT BULLETIN

Sto Bonding & Anti-Corrosion Agent

Product Number: 81883



PRODUCT DESCRIPTION

Sto Bonding & Anti-Corrosion Agent is a single component polymer modified portland cement-based coating. Use it for bonding new concrete or mortar to old concrete and for protecting reinforcing steel against corrosion.

FEATURES	BENEFITS
Single component	Easy to mix and apply; just add water
Extended open time	Up to 7 days to place overlay mortar
Sprayable	Faster application time
Water clean up	Environmentally and worker friendly
No VOC	Environmental regulatory compliance
Non-flammable	Non-hazardous at job site

COVERAGE

- 70-80 ft² per mixed gallon, applied at 20 wet mils (6-7 m² per 3.8 L) when used as a bonding agent.
- 35-40 ft² per gallon, applied in 2 coats at 20 wet mils each (3.3-3.7 m² per 3.8 L) when applied on reinforcing steel.
- 1 bag will yield approximately 2.2 mixed gallons (3.8 L).

Packaging: 25 lb. (11.3 kg) bag

Shelf Life: 12 months in original, unopened, properly stored packaging.

Storage: Store off the ground in a dry area, between 40 and 95°F (4 and 35°C). Protect from moisture.

SURFACE PREPARATION

Bonding Agent

Remove loose and deteriorated materials by shot or sand-blasting, or mechanical means to obtain a fractured aggregate surface. Make sure surfaces are sound, clean, and free of all bond-inhibiting materials including oil, dust, dirt, laitance, and standing water.

Anti-Corrosion Agent

Remove rust or active corrosion using sandblasting or mechanical wire brushing to produce a white metal finish. Make sure surfaces are clean, dry, and free of all bond-inhibiting materials including oil, dust, and dirt.

MIXING

Mixing must be achieved mechanically using a low-speed drill and mixing paddle. Pour 3.0 to 3.5 quarts (2.8 to 3.3 L) of potable water into a clean mixing pail. **MEASURE WATER AMOUNT. DO NOT ADD EXCESS WATER, WHICH CAN BE DETRIMENTAL TO PERFORMANCE.** Add the Sto Bonding & Anti-Corrosion Agent to the pail and mix to a uniform lump-free consistency for up to 3 minutes. Allow material to sit approximately 2 minutes then remix 15 to 30 seconds.

APPLICATION

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

Bonding Agent

Dampen the area to be repaired so that the pores of the concrete are filled with water. Remove any ponding or glistening water on the surface (saturated surface dry/SSD). Apply in one 20 mil (0.5 mm) coat with a hopper gun, pattern pistol-type spray equipment, or with a stiff-bristle brush and work the material into the prepared surface. Place fresh mortar or concrete while the Sto Bonding and Anti-Corrosion Agent is still wet or within 7 days of drying.

Anti-Corrosion Agent

Apply with a stiff bristle brush to the prepared surface, making sure to reach the underside of exposed steel. **Make sure the entire area is coated. Do not leave any pin holes.** Allow to dry to touch and apply a second coat. Place fresh mortar or concrete after the Sto Bonding and Anti-Corrosion Agent has dried to the touch or within 7 days of drying.

Curing

Protect from direct sun or wind which may cause unwanted rapid surface drying. Protect from rain, hail or snow and contaminants until mortar or concrete is placed.

Clean Up

Clean tools and equipment with water immediately after use. Cured material can only be removed mechanically. Sto Bonding & Anti-Corrosion Agent must be applied immediately after cleaning of reinforcing steel to avoid new corrosion.

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LIMITATIONS

- Apply only when surface and ambient temperatures are 45°F (7°C) and rising or 85°F (29°C) and falling.
- NOTE: Sto Bonding and Anti-Corrosion Agent has a working time of approximately 30 to 45 minutes and dries in approximately 2-3 hours under normal conditions (73°F [23°C] & 50% RH). Repair material or overlay must have sufficient flowability to "wet-out" the substrate to assure proper bonding of repair material.
- If early stiffening of the mix occurs, remix the material for an addition minute but DO NOT retemper with additional water.
- Do not use in contact with aluminum.

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.

HEALTH & SAFETY (continued)

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

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.

TECHNICAL DATA

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT*
Slant/Shear Bond Strength	ASTM C882	Min 2500 psi (17.9 MPa)	2550 psi @ 28 days (18MPa)
Splitting Tensile Strength	ASTM C496	Min 500 psi (3.45 MPa)	520 psi @ 28 days (3.6 MPa)
Flexural Strength	ASTM C348	Min1400 psi (9.65 MPa)	1500 psi @ 28 days (10.3 MPa)
Rebar Pull-out Resistance	ASTM E488	AVG Peak load at 28 days	Coated Rebar: >11,000 lbf
Resistance to Corrosion	ASTM B117	Rating 1-10, 10 is ≤ 0.01 %	Rating: 8-9, (8 is > 0.03 % and < 0.1%)
Chloride Permeability	ASTM C1202	Less than 1000 coulombs	270 coulombs
VOC (g/L)	0 g/L 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 73 °F (23 °C) and 50% RH			
*Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests.			

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	Revision Number: 000 Date: 08/2025	<p 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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