

Sto Bonding Agent and Admixture

80245 Sto Bonding Agent and Admixture



Technical Data

REPORT	TEST METHOD		TEST RESULT
Bonding Agent			
Slant Shear Bond Strength (psi)	ASTM C-1042	Wet Method	1320 Meets ASTM C-1059 Type I bonding agent
Admixture (diluted 2/1 with water)			
Compressive Strength (psi)	ASTM C-109	28 days	4,160
Flexural Strength (psi)	ASTM C-293	28 days	700
Tensile Bond Strength (psi)	ASTM C-297	28 days	297
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.		

Typical values for material cured at 73°F and 50% R.H.
Note: To convert to mega Pascal (MPa) multiply by 0.0069

Features Benefits

1 Bonding Agent	Improves adhesion
2 Admixture	Increases durability, improves freeze-thaw resistance
3 Vapor Permeable	Stable in wet environments, does not lose strength
4 Water-based	Cleans up with water, environmentally friendly
5 VOC Compliant	Meets South Coast Air Quality Management District (SCAQMD) requirements

Sto Bonding Agent and Admixture is an acrylic latex for bonding new concrete, mortar or StoPowerwall™ Stucco to hardened concrete. It can also be used as an admixture in fresh concrete, mortar and StoPowerwall™ Stucco to increase adhesion and durability.

Coverage

Bonding Agent: 200-300 ft² per gallon (19-28 m² per 3.8L) depending on substrate porosity.

Coverages may vary depending on application technique and surface conditions.

Use Ratio

Bonding Agent: Use full strength.

Admixture:

With StoPowerwall Stucco:

Dilute 1 part by volume admixture with 3 parts by volume water.

With patching and repair mortars:

Dilute 1 part by volume admixture with 2 parts by volume water.

Packaging

One gallon jug (3.8 L):

4 jugs per case.

5 gallon pail (19 L).

Shelf Life

12 months in original, unopened properly stored container.

Storage

Protect from sun, extreme heat [90°F (32°C)] and freezing.

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Surface Preparation

Remove loose and deteriorated materials by sand-blasting, water-blasting or mechanical wire brushing. Make sure surfaces are

sound, clean, and free of all bond-inhibiting materials including oil, dust, dirt, laitance and standing water.

Mixing

Bonding Agent: Use full strength at a preconditioned temperature of 70±5°F (21±3°C). Mix well before using.

before using. StoPowerwall Stucco: Mix 1 part of Sto Bonding Agent and Admixture with 3 parts clean water by volume.

Admixture: Use at a preconditioned temperature of 70±5°F (21±3°C). Mix well

Patching and repair mortars: Mix 1 part of Sto Bonding Agent and Admixture with 2 parts clean water by volume.

Application

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

set (usually within to 4 hours after installation). Allow final stucco application to completely dry before applying primer or finish.

Bonding Agent: Apply evenly using a brush, roller or proper spray equipment, allowing material to penetrate the surface. Avoid applying in excess, causing the product to run down the wall or puddle. Extremely porous substrates may require a second coat. Apply fresh concrete, mortar or StoPowerwall Stucco while bonding agent is still tacky, up to approximately 1 hour after application.

Patching and repair mortars: Dampen the area to be repaired so that the pores of the concrete are filled with water. Remove any ponding or glistening water from the surface to achieve SSD (Saturated Surface Dry).

Work a scrub coat of the mixed material into the substrate to ensure intimate contact and establish bond. Apply the final patching or repair mortar while the scrub is still WET. Consolidate it and trowel to the desired finish. Applications made while temperatures are below 50°F (10°C) or above 85°F (29°C) should follow ACI application guidelines.

Admixture: StoPowerwall Stucco: damp cure by lightly fogging the installed area for at least 48 hours after stucco has taken initial

Limitations

- Apply only when surface and ambient temperatures are above 45°F (7°C) and rising.
- Do not apply to frozen surfaces.
- Some cracking and efflorescence are inherent in Portland cement plasters. These are not product defects.
- For application of StoPowerwall Stucco over self-consolidating or high density concrete, a scratch coat of Sto BTS® Plus mixed with water or of StoPowerwall Stucco mixed with Sto Bonding Agent and Admixture (full strength) should be applied first and allowed to cure overnight before the standard brown coat is applied.

Health And Safety

Health Precautions

Product is water-based. As with any chemical construction product, exercise care when handling.

Safety Precautions

Use adequate ventilation. Use of safety goggles and chemical-resistant gloves is strongly recommended. Immediately remove contaminated clothing.

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 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 Material Safety Data Sheet on 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

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