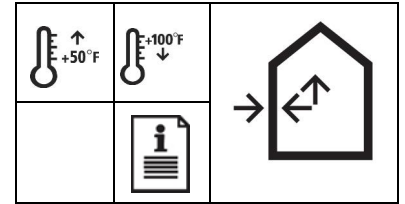


PRODUCT BULLETIN

Sto Bonding & Pointing Mortar

Product Number: 81804



PRODUCT DESCRIPTION

Sto Bonding & Pointing Mortar is an integrally colored organic mortar. Use it to install StoCast Brick in Sto proprietary wall systems and over prepared vertical above grade concrete, concrete masonry (CMU), and stucco walls, ceilings, and soffits, or over prepared interior gypsum wallboard.

| FEATURES | BENEFITS |
|-------------------------------------|---|
| Organic bonding and pointing mortar | Greatly reduces the risk of efflorescence associated with portland cement-based masonry mortars |
| Available in nine standard colors | Design flexibility |
| Easy to install | Does not require highly skilled labor force, cost effective |
| Made with Acrylic Polymers | Durable, Freeze/Thaw and UV resistant, superior flexural strength; resists cracking |

Coverage (per pail): 90 - 105 ft² (8.4 - 9.8 m²) with ¼ x ¼ x ¼ (6x6x6mm) inch square notched trowel

Coverage may vary depending on substrate, application technique, waste factor, and other variables that may exist.

Colors:

2057, Anthracite
 2064, Brown
 2063, Brown-Grey
 2061, Graphite
 2060, Grey
 2059, Light Grey
 2062, Sand Yellow
 2056, White
 2058, Cement-Grey

Custom colors available.

Packaging: 55 lb (24.9 kg) Pail

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

Storage: Store off the ground in a dry area. Store between 50 and 85°F (10 -29°C). Protect from extreme heat, freezing and direct sunlight.

SURFACE PREPARATION

Sto Proprietary Wall Systems: StoTherm® ci, StoTherm® ci GPS, StoVentec®, StoPowerwall®, StoQuik® Silver, StoPanel® Classic NExT ci, StoPanel® GPS ci, and StoLite® systems. Refer to applicable Sto Specification.

Concrete, concrete masonry (CMU), and portland cement stucco: must be constructed in conformance with applicable building code requirements. All surfaces must be structurally sound, clean, dry, and free of frost and surface contamination such as dust, dirt, salts, grease, oils, efflorescence, mold, algae, mildew, and any other contamination that may affect adhesion. Use appropriate repair methods for the substrate to repair pitting, spalls, cracks, peeling, blistering, delamination, weak surface conditions such as laitance, water damage, or other defects that may exist. Skim coat concrete, CMU, and stucco surfaces with Sto BTS Plus up to 1/8 inch (3mm) thick to level/fill the surface or use Sto Leveler and Skim Coat up to ¼ inch (6mm) in one coat or ½ inch (13mm) in two coats. Verify bond to properly prepared surfaces as specified by design professional at 28-day age of the assembly.

Interior Gypsum Wallboard: finish new interior wallboard to a minimum Level 4 finish (wallboard is taped, spotted, and sanded). Remove dust or any other surface contamination, and prime with StoPrime® Sand. If wallboard is painted with latex flat paint no primer is required. If paint is glossy (eggshell, satin, or gloss), degloss the surface by lightly sanding, remove dust or any other surface contamination, apply a skim coat of Sto Bonding and Pointing Mortar, and verify adhesion.

APPLICATION

- Select StoCast Brick from different cartons so brick shades are intermingled as they are installed.
- Plan the layout carefully, taking into account brick pattern, openings such as windows and doors, and alignment of horizontal mortar joints around the building walls.
- Use snips or shears to cut bricks to size as needed
- Curved Surfaces: bricks must be warm to bend them. If necessary, heat bricks and bend to desired curvature. Then install bricks in the mortar. Note: minimum radius for curved surfaces is 4-¾" (120mm).
- Always construct a mock-up under actual conditions of use to verify proper surface preparation, coverage, and aesthetics, for approval by the appropriate authority.

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APPLICATION (CONTINUED)

- Apply only when substrate and ambient temperatures are between 50 to 100°F (5-38°C) over prepared surfaces. Do not apply over damp surfaces or during rain, hail, or snow events, or if rain, hail, or snow is imminent.
 - During hot weather keep material in a cool location just prior to use and work in shade. Spread mortar in smaller areas, install StoCast Brick units immediately, and tool mortar before it "skins." If mortar "skins" cracks, or "cakes," remove it and apply fresh material.
1. Establish layout lines for the pattern in use (e.g., running bond, stacked bond) and mark them on the walls.
 2. Place StoCast Brick units from top to bottom in accordance with the planned layout and work from one end to the other, downward, in sequential rows.
 3. Apply Sto Bonding & Pointing Mortar vertically with a ¼ x ¼ x ¼ inch (6x6x6mm) square notched trowel. Apply in a small area and immediately install StoCast Brick before a "skin" forms on the mortar.
 4. Slide and slightly twist the units into the freshly applied mortar while applying pressure to fully bed the units in the mortar and to ensure no gaps or cavities exist in the mortar. Align units visually while progressing down the wall.
 5. As soon as the units are held in place with mortar, work the joint areas with a small paint brush or specialized pointing tool before the material "skins" to compact and smooth the mortar, and to create a joint profile that covers the edges of the units.
 6. Remove excess mortar from the face of the units with a damp sponge while the mortar is still wet.
 7. After mortar is dry, use a suitable hand brush to clean the surface of the units if needed. Carefully use a utility knife to remove any dry mortar remnants on the surface.
 8. After mortar is completely dry, touch-up mortar joints if needed to seal edges or to sharpen aesthetics.
 9. If thicker joints are desired, and if drying conditions are favorable (>70°F [21°C] and <50%RH) for at least 24 hours, point mortar joints with additional mortar and tool to compact the mortar to a concave profile. Clean the surface as described previously.

Refer to *StoCast Brick Application Guide* for more information.

Clean Up

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

Drying

Sto Bonding & Pointing Mortar dries within 24 hours under normal

conditions [70°F(21°C), 50% RH]. Drying time varies depending on temperature/humidity and surface conditions. Hot, dry conditions accelerate drying. Cool damp conditions delay drying and may require extended periods of protection from rain and freezing. Protect from rain, freezing and continuous high humidity until completely dry.

Cleaning, Repair and Maintenance

Refer to *StoCast Brick Repair and Maintenance Guide* at www.stocorp.com

LIMITATIONS

- Use only when surface and ambient temperatures are between 50 to 100°F (5-38°C) during application and drying period.
- Minimum radius: 4-3/4 inches (120 mm)
- Maximum width of grout joints: ¾ inch (19mm). May require two passes of mortar to fill the joint
- Do not use on horizontal or below grade surfaces, projecting ledges, sills, or sloped surfaces, or where immersion in water may occur
- Do not use on roof or roof-like surfaces
- Select colors with Light Reflectance Value (LRV) greater than or equal to 20 when used over StoTherm ci Systems (does not apply to StoTherm ci Mineral)
- Not recommended to clean with abrasive or high-pressure wash methods. Use low pressure (up to 500 psi [3.45 MPa])
- Not recommended for use on walls requiring high scrub resistance or repeated exposure to chemical cleaners such as shower stalls, food preparation areas, or hospital operating rooms

LIMITED WARRANTY

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

HEALTH & SAFETY

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

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.

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HEALTH & SAFETY (CONTINUED)

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 if irritation develops or persists.

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.

TECHNICAL DATA

| REPORT (includes Sto Bonding & Pointing Mortar and StoCast Brick) | TEST METHOD | TEST CRITERIA | TEST RESULT* |
|--|---|--|--|
| Adhesion after freeze/thaw cycling | ASTM E2568 / C297 | > 15 psi (103 kPa) | AVG 24 psi (165 kPa) |
| Water Vapor Transmission | ASTM E96 Method B | Measure (StoCast Brick adhered with Sto Bonding & Pointing Mortar) | 11.5 US Perms 658 ng/(Pa•s•m ²) |
| Accelerated Weathering/UV Resistance | ASTM E 2568 / G155 | No deleterious effects after 2000 hours | No deleterious effects after 2000 hours exposure |
| Salt Spray Resistance | ASTM E2568 / B117 | No deleterious effects after 300 hours | No deleterious effects after 300 hours exposure |
| Freeze/Thaw Resistance | ASTM E2568 / E2485 | No deleterious effects after 10 cycles | No deleterious effects after 60 cycles exposure |
| Water Resistance | ASTM E2568 / D2247 | No deleterious effects after 14 days | No deleterious effects after 14-days exposure |
| Water Penetration Resistance | ASTM E2568 / E331 | No water penetration after 2 hours at 6.24 psf | No water penetration after 2 hours water spray at 6.24 psf pressure |
| Impact Resistance | ASTME2568 / E2486 | Standard impact resistance with 1 layer Sto Mesh | Meets medium impact resistance with 1 layer Sto Mesh |
| Surface Burning | ASTM E84 | Flame Spread: ≤ 25 Smoke Developed: ≤ 450 | Flame Spread: < 25 Smoke Developed: < 450 |
| Radiant Heat Ignition ¹ | NFPA 268 | No ignition during the 20-minute test period | No ignition |
| Multistory Flame Spread ¹ | NFPA 285 | Complies with NFPA 285 Acceptance Criteria | Pass (qualifies for use on noncombustible construction) |
| Fire Resistance ¹ | ASTM E119 | Achieves hourly rating | Achieves 1 and 2-hour ratings as a component of StoTherm [®] ci |
| Building Code Compliance | Class A Building Material: qualifies for use as an interior finish | | |
| | Meets requirements for use on noncombustible construction as a finish component of: <ul style="list-style-type: none"> StoTherm[®] ci, StoTherm[®] ci GPS, StoPanel[®] Classic NEXT ci, StoPanel[®] GPS ci. Refer to ICC-ESRs 1748 and 4500 StoPowerwall[®] ci. Refer to ICC-ESR 1233 StoVentec[®] Render. Refer to Intertek Design Listing Sto/CWP 30-01 Code compliant concrete, concrete masonry, and portland cement stucco wall assemblies | | |
| * Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests. | | | |
| 1. Results achieved when used as finish component of StoTherm [®] ci wall assembly. | | | |

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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