

Building with conscience.

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Sto Guide Specification No. 3000 StoQuik® Finish for Concrete and CMU

**Section 09 25 13.13
ACRYLIC PLASTER FINISH
or
Section 09 77 00
SPECIAL WALL SURFACING**

Notes in italics, such as this one, are explanatory and intended to guide the design/construction professional and user in the proper selection and use of materials. This specification should be modified where necessary to accommodate individual project conditions.

The applicable CSI Section number depends on the finish selected: Sto Textured Finishes and Sto Signature Finishes are Acrylic Plaster Finish. Sto Specialty Finishes and StoCast Finishes are Special Wall Surfacing

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PART 1 GENERAL

1.1 SUMMARY

- A. Provide finish for vertical above grade exterior concrete and concrete masonry wall surfaces.

IMPORTANT: This guide specification covers installation of a Class A finish over building code compliant concrete or concrete masonry (CMU) wall construction. It does not address air sealing, construction detailing, flashing and other important aspects of design and construction that must be taken into consideration to prevent water infiltration, to prevent condensation caused by air leakage or water vapor diffusion, and to comply with applicable fire safety requirements. Consult with a qualified design professional for overall design of the wall assembly.

1.2 SUBMITTALS

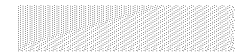
- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used. Include manufacturer's Safety Data Sheets.

1.3 REFERENCES

- A. ASTM Standards
1. C920, Standard Specification for Elastomeric Joint Sealants
 2. E84, Standard Test Method for Surface Burning Characteristics of Building Materials
- B. South Coast Air Quality Management District (South Coast AQMD)
1. Rule 1113, Architectural Coatings

1.4 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: The finish manufacturer shall be a company with at least thirty five years of experience in manufacturing acrylic plaster and specialty finishes and regularly engaged in the manufacture and marketing of products specified herein. The manufacturer shall have a current ISO 9001 certified quality system and ISO 14001 certified environmental management system.
- B. Installer's Qualifications: The contractor shall be qualified to perform the work specified by reason of experience. Contractor shall have at least 5 years of experience in acrylic plaster or specialty finish application, and shall have completed at least 3 projects of similar size and complexity. Contractor shall provide proof before commencement of work that he/she will maintain and supervise a qualified crew of applicators through the duration of the work. When requested Contractor shall provide a list of the last three comparable jobs including the name, location, and start and finish dates for the work.
- C. Mock-ups: The contractor shall install a mock-up of the finished wall for evaluation and approval by the design professional, building owner, or owner's representative/quality assurance agent.
- D. Testing: Testing shall be conducted as directed by the design professional, building owner, or owner's representative/quality assurance agent to verify wall assembly performance, and to verify adhesion to prepared substrates before and during construction. Where substrate is too dense or non-absorbent for adhesion, or where a bond inhibiting material is on the surface, or in any case where adhesion is in question, install portland cement plaster over metal lath or other appropriate plaster base as directed by design professional, owner, or owner's representative/quality assurance agent.



1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver products in original packaging, labeled with product identification, manufacturer, and batch number.
- B. Store products in a dry area with temperature maintained between 50 and 85 degrees F (10 and 29 degrees C). Protect from direct sunlight. Protect from freezing. Protect from extreme heat (>90 degrees F [32 degrees C]).
- C. Handle products in accordance with manufacturer's printed instructions.

1.6 WARRANTY

- A. Provide manufacturer's standard limited warranty.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Finishes, primers, adhesives, stains, levelers, and any other associated materials used with the finish shall be Class A building materials based on testing in accordance with ASTM E84. VOC (Volatile Organic Content) shall be less than 50g/L and shall comply with South Coast AQMD Rule 1113 requirements
- B. Substrate Leveler or Skim Coat

Note: select one material depending on wall surface condition

- 1. Sto BTS Plus – factory blended polymer modified dry powder base coat mixed with potable water for leveling and smoothing wall surfaces up to 1/16 inch (1.6mm) in one coat or 1/8 inch (3mm) in two coats
- 2. Sto Primer-Adhesive-B – factory blended polymer modified dry powder base coat mixed with potable water for leveling and smoothing wall surfaces up to 1/16 inch (1.6mm) in one coat or 1/8 inch (3mm) in two coats
- 3. Sto Primer/Adhesive – latex additive field mixed with portland cement for leveling and smoothing wall surfaces up to 1/16 inch (1.6mm) in one coat or 1/8 inch (3mm) in two coats
- 4. Sto BTS Xtra – factory blended polymer modified dry powder base coat mixed with potable water for leveling and smoothing wall surfaces up to 1/8 inch (3mm) in one coat or 1/4 inch (6mm) in two coats
- 5. Sto Leveler and Skim Coat - factory blended polymer modified dry powder base coat mixed with potable water for leveling and smoothing wall surfaces up to 1/4 inch (6mm) in one coat or 1/2 inch (13mm) in two coats

Note: Sto Crack Defense is optional. It functions to resist cracking in the leveling coats

- C. Sto Crack Defense
 - 1. Sto Mesh – nominal 4.5 oz/yd² (153 g/m²) glass fiber reinforcing mesh treated for compatibility with Sto materials embedded in the Sto base coat material to form Sto Crack Defense.

Note: Select one waterproof base coat if waterproofing of the wall surface is intended. Also use waterproof base coat to waterproof sloped surfaces of foam trim where it exceeds 2 inches [51mm] up to a maximum of 4 inches [102mm] thick. Minimum required slope of foam trim is 1:2 (27 degrees).

- D. Waterproof Base Coat



1. Sto Flexyl – acrylic-based additive combined with portland cement in the field (for leveling and waterproofing up to 1/16 inch [1.6 mm] in one pass with Sto Mesh)
2. Sto Watertight Coat – two component acrylic additive with pre-proportioned portland cement, (for leveling and waterproofing up to 1/16 inch [1.6 mm] in one pass with Sto Mesh)

Note: priming is generally recommended for best results when installing Sto Textured Finishes. Priming is required for Sto Specialty finishes. Select one primer as applicable.

E. Primer

1. StoPrime® Hot – acrylic-based primer/sealer for highly alkaline (pH greater than or equal to 10) substrates
2. StoPrime® Sand – acrylic-based tinted, sanded primer for fully cured (minimum 28 day old or pH less than 10) substrates
3. StoPrime® - acrylic-based tinted block filler and primer for fully cured (minimum 28 day old or pH less than 10) substrates
4. StoPrime® Block Surfacer HP – acrylic-based high build block filler and primer for fully cured (minimum 28 day old or pH less than 10) concrete and concrete masonry substrates

Note: Select finish based on sample submittals and approved mock-up

F. Textured Finishes

1. Stolit® Lotusan® – factory blended, decorative and protective textured wall finish with integral color and Lotus-Effect® technology
2. Stolit® HDP™ -- factory blended, decorative and protective, hydrophobic, acrylic textured wall finish with integral color
3. Sto Powerflex Silco – factory blended, decorative and protective, silicone enhanced acrylic elastomeric textured wall finish with integral color
4. Sto Powerflex – factory blended, decorative and protective, acrylic elastomeric textured wall finish with integral color
5. Sto Powerwall® – factory blended, decorative and protective, flexible acrylic textured wall finish with integral color
6. Stolit® – factory blended, decorative and protective, acrylic textured wall finish with integral color
7. Stolit® X – factory blended, decorative and protective, acrylic textured wall finish with integral color, and enhanced polymer technology for easy spread and float application
8. Sto Essence DPR – factory blended, decorative and protective, acrylic textured wall finish

Note: Sto Specialty Finishes require priming prior to application of finish

G. Sto Specialty Finishes

1. StoCreativ® Granite, StoCreativ® Lux, Sto GraniTex®, or Sto Decocoat® factory blended, decorative and protective clear acrylic textured wall finishes with factory blended aggregate color

H. Sto Smooth Finishes

1. Stolit® Milano – factory blended, decorative and protective acrylic-based smooth wall finish

- 2. Stolit® Freeform – factory blended, decorative and protective acrylic-based wall finish (can be applied to create a smooth wall finish, skip trowel texture, or other “freeform” finish textures)
- I. Sto® Signature™ Series Finishes – combinations of Sto factory blended acrylic finishes that create special effect architectural surfaces with trowel techniques
- J. StoCast Finishes – Sto factory cast decorative and protective finishes
 - 1. StoCast Wood
 - 2. StoCast Brick
- K. Accessories
 - 1. StoSeal STPE Sealant - high-movement, low modulus, non-sag one-component silyl-terminated polyether joint sealant in compliance with ASTM C920

2.2 PERFORMANCE REQUIREMENTS

- 1. Waterproofing, primers, and applicable finish components: ASTM E84, flame Spread less than 25, smoke developed less than 75, Class A building material
- 2. Waterproofing, primers, and applicable finish components: South Coast AQMD Rule 1113, Volatile Organic Content (VOC), comply with applicable requirement of coating category

PART 3 EXECUTION

3.1 INSTALLATION

Note: Smooth finish textures require tighter tolerances than coarse textures. Sto base coats and levelers can generally be used in one or two coats to level and smoothen prepared concrete and concrete masonry wall surfaces. The approved mock-up shall be the basis for the materials and methods needed to achieve an acceptable finished wall surface appearance

- A. All substrates shall be leveled and true to a tolerance of not more than 1/8 inch in 10 ft (3mm in 3 m) except when determined otherwise on the basis of an approved mock-up.
- B. Surface Preparation
 - 1. Concrete: Concrete must be free of surface contamination such as grease, oil, wax, dust, dirt, salts, algae, mildew, pollen or any other surface contamination that could inhibit adhesion. Surface must be absorbent, slightly pitted or scarified and must be fully cured and free of voids, cracks, weak surface conditions such as laitance, and any other surface defects.
 - 2. Concrete Masonry: Concrete masonry must be free of surface contamination such as grease, oil, wax, dust, dirt, salts, algae, mildew, pollen or any other surface contamination that could inhibit adhesion. Surface must be fully cured and free of cracks, weak surface conditions such as laitance, and any other surface defects.
- C. Mixing
 - 1. Mix Sto products in accordance with published literature. Refer to applicable Product Bulletins for specific information on use, handling, application, precautions, and limitations of specific products
- D. Application

1. Apply the selected Sto base coat product in one or two coats in accordance with published literature to level and smooth the prepared wall surface

Note: Sto Crack Defense is optional and can be used as one of the leveling coats to level and smooth the wall surface

2. Crack Defense Reinforcement Layer: Install nominal 1/8 inch (3 mm) base coat by trowel to the wall surface. Work horizontally or vertically in strips of 40 inches (1016 mm), and immediately embed the reinforcing mesh into the wet base coat by troweling from the center to the edges of the mesh. Overlap mesh not less than 2-½ inches (64 mm) at mesh seams and feather at seams. Double wrap all inside and outside corners with minimum 6-inch (152 mm) overlap in each direction. Avoid wrinkles in the mesh. The mesh must be fully embedded so that no mesh color shows through. Re-skim with additional base coat if mesh color is visible. Allow base coat to dry before applying primer.

Note: priming is generally recommended for best results when installing Sto Textured Finishes. Priming is required for Sto Specialty finishes. Select one primer as applicable.

3. Apply appropriate primer by brush, roller, or spray to the base coat.
4. When the primer application is dry apply the Sto finish
 - a. Sto Textured Finish Installation: Refer to applicable Product Bulletin
 - b. Sto Specialty Finish Installation: Refer to applicable Product Bulletin
 - c. Signature Finish Installation: Refer to applicable Sto Signature Finish Application Guide
 - d. StoCast Finish Installation: Refer to applicable StoCast Product Bulletin and Application Guide
5. Do not install base coat, reinforcing mesh, primer, or finish coat over joint sealants, cold joints, control joints, or accessories. Install over the prepared leveled substrate only.

E. Protection

1. Provide protection of installed materials from water infiltration into or behind them during and after construction.
2. Provide protection of installed materials from dust, dirt, precipitation, freezing and continuous high humidity until they are fully dry.
3. Provide coping and/or flashing at sills, projecting features, deck attachments, roof/wall intersections, parapets and similar construction details to prevent water entry into the wall assembly or into and behind the finish. Seal penetrations through the finished wall surface with backer rod and sealant or other appropriate means to provide a watertight condition.

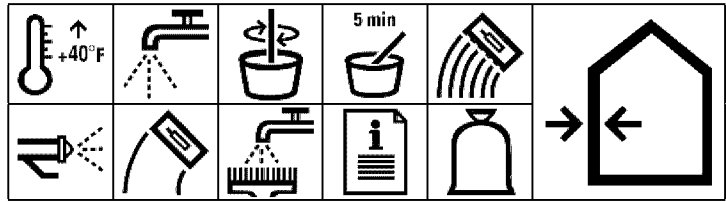
ATTENTION

Sto products are 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. They 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 Sto products or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to Sto products, 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.

Product Bulletin

Sto Primer/Adhesive-B

80101 Sto Primer/Adhesive-B

**Technical Data**

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Surface Burning	ASTM E-84	< 25 Flame Spread < 450 Smoke Developed	0 5
Adhesion (psi)	ASTM C-297 Modified	28 days	> 20 Gypsum Sheathing* > 15 EPS Board* > 80 Concrete Block* > 35 Dens-Glass® Gold**
Impact Strength	EIMA 101.86	Standard Impact Classification	Pass

* Failure of substrate

** Dens-Glass Gold is a registered trademark of G-P Gypsum Corp.

Sto Primer/Adhesive-B is a one-component, polymer-modified, cement based, dry powder material used as an adhesive and base coat in the StoTherm® ci Essence System.

Coverage

"Through the wall": 55-70 ft² (5.1-6.5 m²) per bag (when used for both adhesive and base coat applications).

As an adhesive over sheathing and smooth masonry:
90-125 ft² (8.4-11.6 m²) per bag, applied with a 1/2" x 1/2" (13 mm x 13 mm) U-notched trowel having 2" (51 mm) spread between notches.

As an adhesive over rough or uneven masonry:
30-45 ft² (2.8-4.2 m²) per bag, applied with a 5/8" x 5/8" (16 mm x 16 mm) square-notched trowel, having 5/8" (16 mm) spread between notches.

As a base coat: 75-115 ft² (7-10.7 m²) per bag.

As a skim coat: 90-135 ft² (8.4-12.5 m²) per bag.

Coverages may vary depending on application technique and surface conditions.

Features	Benefits
1 One-component	Ready to use; easily mixed with water on the job site
2 Polymer-modified	Excellent adhesion; increases durability and freeze/thaw resistance
3 Creamy smooth consistency	Trowels on easily; increases productivity
4 Vapor permeable	Allows substrate to breathe naturally; resists blisters caused by trapped vapor
5 Factory blended Portland cement	Assures performance mix ratio
6 Low cement ratio	Less alkalinity, less free lime, less efflorescence
7 Bagged powder product	Less solid waste than pails; freezing protection not required prior to mixing

Surface Preparation**As an adhesive**

StoGuard® Air/Moisture Barrier: ensure surface is clean, dry and free of surface contamination. Install StoTherm ci insulation board with adhesive within 30 days of the application of Sto Gold Coat, or clean the surface and recoat with Sto Gold Coat.

Concrete or Masonry: surfaces must be clean, dry and free of frost, damage and all bond-inhibiting materials, including dirt, efflorescence, laitance, form oil and other foreign matter. Loose or damaged material must be removed by water blasting, sandblasting or mechanical wire brushing and repaired.

Avoid application over irregular surfaces.

Resurface, patch or level surfaces to required tolerance and smoothness with appropriate Sto leveling materials. Refer to ASTM D-4258 and ASTM D-4261 for complete details on preparing cementitious substrates for coatings.

Glass Mat Gypsum Sheathing in Compliance with ASTM C 1177: ensure surface is clean, dry and free of surface contamination. Sheathing must be installed and protected in accordance with manufacturer's and building code requirements. Remove and replace weather-damaged sheathing. Avoid application over irregular, out of plane surfaces. Install StoTherm ci insulation board with adhesive within 30 days of installation of the sheathing.

Packaging

50 lb. bag (23 kg).

Shelf Life

12 months, if properly stored and protected from moisture.

Storage

Store off the ground in a dry area. Protect from extreme heat [90°F (32°C)], moisture and direct sunlight.

Sto Primer/Adhesive-B

Surface Preparation cont.

As a base coat

StoTherm ci Insulation Board: insulation must be rasped and free of all bond inhibiting materials.

Concrete or Masonry: surfaces must be clean, dry and free of frost, damage and all bond-inhibiting materials, including dirt, efflorescence, laitance, form oil and other foreign matter. Loose or damaged material must be removed by water blasting, sandblasting or mechanical wire brushing and repaired.

Mixing

Use 5-6.5 quarts (4.7-6.2 L) of water per 50 lb. bag (23 kg). Mix automatically using Sto's Continuous Mixer, or mix manually by adding one 50 lb. (23 kg) bag of Sto Primer/Adhesive-B to 5-6.5 quarts (4.7-6.2 L) of clean, potable water in a clean mixing pail. Mix with a clean, rust-free electric drill and paddle.

Allow to set approximately five minutes, adjust mix if necessary by adding up to 12 fl.oz. (0.35 L) of water per bag, remix to a uniform consistency. Avoid re-tempering after mixing of product. Do not exceed maximum amount of water in mix ratio.

Application

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

As an adhesive: Apply to the back of the insulation board with the appropriate size notched trowel. When using Sto's M-8 Spray pump apply directly onto the substrate. Form uniform ribbons of adhesive parallel to the short dimension of the board so the ribbons are oriented vertically in relation to the plane of the wall. Immediately install the board horizontally with staggered joints and apply firm uniform pressure over the entire board surface. Do not delay installation once adhesive is applied.

As a base coat: Apply with spray equipment such as Sto's M-8 Spray Pump or apply manually with a stainless steel trowel to an approximate thickness of 1/8" (3 mm). Work horizontally or vertically in strips of 40" (1 m) and immediately embed Sto Mesh in the wet Sto Primer/Adhesive-B by troweling from the center to the edges of the mesh. Avoid wrinkles in the mesh and smooth the base coat to eliminate trowel marks.

Minimum recommended dry thickness of the reinforced base coat is 1/16" (1.6 mm) when dry. Reapply additional base coat if necessary to achieve minimum thickness as soon as the first application is dry.

As a skim coat: Apply in one application to a maximum thickness of 1/16" (1.6 mm) to the prepared surface and smooth the surface.

Curing/Drying

Dries within 24 hours under normal drying conditions [70°F (21°C), 50% RH]. Allow additional drying time during cold, humid, or wet weather until insulation board is fully adhered before rasping, and before application of primer or finish to hardened Sto Primer/Adhesive-B. Protect from rain, freezing and continuous high humidity until completely dry. Sto recommends priming using the appropriate Sto Primer prior to application of finish.

Clean Up

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

Limitations

- Use Sto Primer/Adhesive-B only when surface and ambient temperatures are above 40°F (4°C) during application and drying period.
- Sloped surfaces: Refer to Sto details.
- Sto Primer/Adhesive-B should not be used on weather-exposed horizontal or below grade surfaces or where immersion in water may occur.
- Prevent rapid loss of moisture from exposure to direct sun, wind and high temperatures.
- Sto Primer/Adhesive-B should not be used as a finish coating.
- It should not be used over wood surfaces except for wood sheathing surfaces protected by StoGuard®.

Health And Safety

Health Precaution

Contains Portland cement and crystalline silica. Avoid breathing dust. As with any chemical construction product, exercise care when handling. **DANGER!**

Causes serious eye damage and/or skin irritation. May cause an allergic skin reaction, respiratory irritation, drowsiness or dizziness.

Safety Precaution

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

First Aid: 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 eye lids with fingers. Get immediate medical attention.

SKIN CONTACT: Immediately wash skin with plenty of soap and water for at least 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 medical attention immediately. **INGESTION:** If swallowed, do NOT induce vomiting. Call a physician or a poison control center immediately. Never give anything by mouth to an unconscious person.

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) 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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S155-80101
Revision: A3.1
Date: 04/2018

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.

Sto Essence DPR Finishes

A ready-mixed, acrylic-based exterior or interior textured coating used as a decorative and protective wall finish over prepared concrete, masonry and plaster substrates and in StoTherm® ci Essence.

Coverage

Sto Medium Sand Finish: 110-130 ft² (10.2-12.1 m²) per pail.
Sto Swirl Finish: 120-140 ft² (11.1-13.0 m²) per pail.
Sto Fine Sand Finish: 140-160 ft² (13.0-14.9 m²) per pail.

Coverages may vary depending on application technique and surface conditions.

- Packaging

5 gallon pail (19 L).

Shelf Life

18 months, if properly stored and sealed.

Storage

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

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Sto Essence DPR Finishes

Surface Preparation

Concrete and masonry surfaces: Surfaces must be clean, dry, and free of frost, damage, and all bond-inhibiting materials, including dirt, efflorescence, form oil and other foreign matter. Loose or damaged material must be removed by water blasting, sandblasting or mechanical wire brushing and repaired. Avoid application over irregular surfaces. Resurface, patch or level surfaces to required tolerance and smoothness with appropriate Sto leveling materials. Refer to ASTM D-4258 and ASTM D-4261 for complete details on methods of preparing cementitious substrates for coatings.

StoTherm® Exterior Insulation and Finish Systems (EIFS): Surface must be free of all bond-

inhibiting materials.

Gypsum wallboard surfaces: Wallboard must be taped and fasteners spotted with joint compound. Refer to ASTM C-840 and gypsum wallboard manufacturer's literature.

Surface must be free of dust, dirt and other bond-inhibiting materials. Surface must be primed with appropriate Sto Primer.

Autoclaved Aerated Concrete (AAC): Base coat must be fully dry and smooth. Base coat surface must be free of all bond-inhibiting materials.

Sto recommends priming cementitious substrates using the appropriate Sto primer prior to application of finish.

Mixing

Mix with a clean, rust-free electric drill and paddle to a uniform consistency. A small amount of clean water may be added to aid workability

Limit addition of water to amount needed to achieve the finish texture.

Application

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

Trowel: Apply Sto Essence Finishes with a clean stainless steel trowel to a rough thickness slightly more than the largest aggregate size.

Use the trowel to scrape the material down to a uniform thickness no greater than the largest aggregate size. Achieve final texture by floating with the appropriate trowel in a figure eight motion; stainless steel trowel for Sto Medium Sand and Sto Fine Sand (pebbled texture finish) and plastic float for Sto Swirl Finish (rilled texture). Once applied, the working time is up to 20 minutes depending upon material, ambient temperatures and surface conditions.

Spray: Apply Sto Essence Finishes with a handheld gravity-feed hopper-type sprayer, texture spray pump machine, or other appropriate equipment such as the StoSilo system or Sto's M-8 Spray Pump. Apply an even coat to ensure full coverage of the surface. (Spray application is not recommended for Sto Swirl Finish.)

IMPORTANT: ALWAYS check color for proper match. If color does not match, STOP—call your Sto representative. For best results always prime

cementitious substrates. Apply coating in a continuous application, always working from a wet edge or architectural break to eliminate cold joints. Minor shade variations may occur from batch to batch (refer to batch no. on pail). Avoid installing separate batches side-by-side and avoid application in direct sunlight. Avoid installing new finish adjacent to weathered or aged finish. Sto Corp. will not be responsible for shade or color variation from batch to batch, variation caused by application or substrate deficiencies, or fading resulting from natural causes such as weather. See Tech Hotline Nos. 0694-C, 0893-EC and 1202-CF for helpful tips on prevention of color problems.

Protect installed product from rain, freezing, and continuous high humidity until completely dry.

Curing/Drying

Sto Essence Finishes dry within 24 hours under normal conditions [70°F (21°C), 50% RH].

Drying time varies with temperature/humidity and surface conditions.

Clean Up

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

Limitations

- Use Sto Essence Finishes only when surface and ambient temperatures are above 40°F (4°C) and below 100°F (38°C) during application and drying period.
- Sloped surfaces: Refer to Sto details.
- Sto Essence Finishes should not be used on weather-exposed horizontal, below grade or water immersed surfaces.
- For Exterior Insulation and Finish Systems (EIFS), select finish colors with a lightness value of 20 or greater.

Health And 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. **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.

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 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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www.stocorp.com

**S155-80306,
80307, 80310**
Revision: A3.0
Date: 06/2016

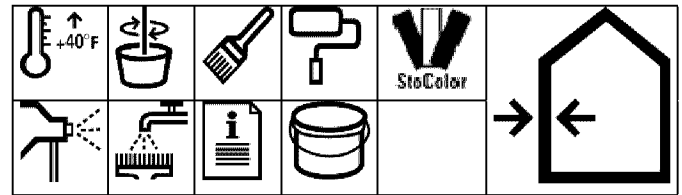
Attention

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PRODUCT BULLETIN

StoPrime®

Product Number: 80804



PRODUCT DESCRIPTION

StoPrime is used for priming prepared concrete, masonry, plaster, EIFS base coat, or drywall surfaces prior to application of Sto finishes and coatings.

FEATURES	BENEFITS
Acrylic-based	Excellent adhesion
Vapor Permeable	Allows substrate to breathe naturally
Water Based	Safe, non-toxic, cleans up with water
Promotes uniform substrate absorption	Improves finish coat coverage
Can be tinted to same color as finish	Improves finish color uniformity
Low VOC	Safe for workers and the environment

COVERAGE (per pail)

1250-1885 ft² (116-175 m²) per pail

Coverage will vary depending on substrate condition and texture, application technique, waste factor, final film thickness, and other variables that may exist.

Packaging: 5 gallon pail (19L)

Color: 800 Standard Colors or Custom Color Match

Shelf Life: 12 months, if properly stored and sealed.

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.

SURFACE PREPARATION

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, or any other condition 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. If pressure washing, follow necessary safety precautions and adjust pressure to avoid damage to the underlying substrate. For mold, algae, and mildew removal, treat surfaces with a commercial mildew removal and/or wash product, carefully following manufacturer's application and safety directions. Rinse thoroughly with clean water and allow a minimum of 24 hours to dry thoroughly before application of coating.

MIXING

Use at a preconditioned temperature of 70 ± 5°F (21 ± 3°C). Mix undiluted product for 3 minutes using a slow-speed drill and a mixing paddle. Mix thoroughly to a uniform consistency.

HEALTH & SAFETY

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.

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 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.

PRODUCT BULLETIN

StoPrime®

Product Number: 80804

APPLICATION

Vertical Wall Surfaces

Apply only to sound and clean, dry, properly prepared, frost-free surfaces. Do not apply over damp surfaces or during rain, hail, or snow events or if rain, hail, or snow is imminent. Apply with brush, roller, or proper spray equipment in a continuous coat, to a minimum thickness of 6 wet mils to achieve minimum 3.4 DFT, always working from a wet edge or architectural break to eliminate cold joints. Back roll open texture surfaces such as concrete masonry. Allow sufficient time for drying between coats.

Curing/Drying

Product dries within 24 hours under normal drying conditions [70°F (21°C), 50% RH]. Drying time varies with temperature/humidity and surface conditions. Protect installed product from rain, freezing, and continuous high humidity until completely dry.

Clean Up

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

LIMITATIONS

- Apply when ambient and surface temperatures are 40°F (4°C) and rising, and below 100°F (38°C)
- Do not apply if the surface temperature is less than 5°F (2.8°C) above the ambient dew point temperature.
- Do not use below grade, or in areas subjected to hydrostatic pressure, water immersion, ponding, or puddling.
- Do not overcoat with solvent-based materials.
- Efflorescence of Portland cement-based substrates such as concrete, stucco, and concrete masonry sometimes causes staining or discoloration on the surface of applied coatings. Efflorescence is neither caused nor prevented by the Sto coating.
- Not for use on wood or metal surfaces

LIMITED WARRANTY

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

TECHNICAL DATA

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT
Alkali Resistance	ASTM D1308	4 hours exposure	Slight stain, no lifting, wrinkling, or disintegration
Efflorescence Blocking	ASTM D7072	48 hours in humidity cabinet at 100°F (39°C)	No efflorescence observed
Adhesion to Concrete psi (MPa)	ASTM D7234	>50 (0.344)	560 (3.86)
Water Vapor Permeability Perms (ng/Pa·s·m²)	ASTM 1653** Wet-cup method	1 coat at 6 mils WFT	94 (5378)
Solids Content by Volume (%)	ASTM D2697	N/A	57%
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.		
* Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests.			
**D1653 results are estimates based on E96 wet cup method			

Sto Corp.

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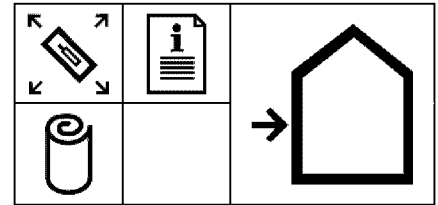
Revision Number: A6
Date: 05/2019

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Sto Reinforcing Meshes

80918 Sto Intermediate Mesh
 80919 Sto Detail Mesh
 80920/81920 Sto Mesh
 80921 Sto Armor Mat
 80922 Sto Armor Mat XX
 80985 Sto Mesh 6 oz.



Technical Data			
REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Tensile Strength	ASTM D-5035	Product	WARP (PLI) WEFT (PLI)
		80918 Intermediate Mesh	300 460
		80919 Detail Mesh	150 160
		80920/81920 Mesh	150 160
		80921 Armor Mat	350 540
		80922 Armor Mat XX	875 500
		80985 Sto Mesh 6 oz.	140 225
Strength-Post Alkaline Soak	EIMA 105.01	80918 Intermediate Mesh	N/A
		80919 Detail Mesh	Pass
		80920/81920 Mesh	Pass
		80921 Armor Mat	N/A
		80922 Armor Mat XX	N/A
		80985 Sto Mesh 6 oz.	Pass
Product	NOMINAL Weight/YD². +/- 5 %	Width of Roll	Length of Roll
80918 Intermediate Mesh	11 oz.	38" (0.97 m)	75' (22.9 m)
80919 Detail Mesh	4.2 oz.	9.5" (0.24 m)	150' (45.7 m)
80920 Mesh	4.5 oz.	38" (0.97 m)	150' (45.7 m)
81920 Mesh	4.5 oz.	48" (1.22 m)	150' (45.7 m)
80921 Armor Mat	15 oz.	38" (0.97 m)	75' (22.9 m)
80922 Armor Mat XX	20 oz.	38" (0.97 m)	75' (22.9 m)
80985 Sto Mesh 6 oz.	6 oz.	38" (0.97 m)	150' (45.7 m)
Impact Resistance of StoTherm ci with Sto EPS Insulation Board		Impact Classification (Inch-lbs)	(Joules)
With Sto Mesh		Standard (25 – 49)	(2.83 - 5.54)
With 2 layers Sto Mesh		Medium (50 – 89)	(5.65 – 10.1)
With one layer of Sto Mesh 6oz		Medium (50 – 89)	(5.65 – 10.1)
With Sto Intermediate Mesh		High (90 – 150)	(10.2 – 17)
With Sto Armor Mat and Sto Mesh		Ultra High (over 150)	(over 17)
With Sto Armor Mat XX and Sto Mesh		Ultra High (over 150)	(over 17)

Sto Reinforcing Meshes are specially designed coated glass fiber fabrics used to provide reinforcement and impact resistance in Sto Wall Claddings, including StoTherm® ci and StoQuik® Silver Systems. A variety of meshes are provided for design flexibility, maximum performance, and to facilitate application.

Coverage per Roll

80918 Sto Intermediate Mesh: 238 ft² (22.1 m²)
 80919 Sto Detail Mesh: 118 ft² (11 m²)
 80920 Sto Mesh 38": 475 ft² (44.1 m²)
 81920 Sto Mesh 48": 600 ft² (55.7 m²)
 80921 Sto Armor Mat: 238 ft² (22.1 m²)
 80922 Sto Armor Mat XX: 238 ft² (22.1 m²)
 80985 Sto Mesh 6 oz.: 475 ft² (44.1 m²)

Packaging per carton

80918 Sto Intermediate Mesh: 4 rolls
 80919 Sto Detail Mesh: 16 rolls
 80920/81920 Sto Mesh: 4 rolls
 80921 Sto Armor Mat: 2 rolls
 80922 Sto Armor Mat XX: 1 roll
 80985 Sto Mesh 6 oz.: 4 rolls

Color

Yellow: Sto Mesh, Sto Mesh 6 oz., Sto Intermediate Mesh, Sto Amor Mat, Sto Armor Mat XX
 White: Sto Detail Mesh

Shelf Life

2 years in original, unopened container when properly stored.

Storage

Store in a dry area. Protect from direct sunlight. Store in cartons with cartons on the side (not upright).

Features	Benefits
1 Flexible	Easily wrapped at corners
2 Trimmed Edges	Minimizes building on overlapped seams
3 Coated Glass Fiber	Durable, long-lasting; provides impact resistance
4 Distinct Yellow Color and Sto logo	Quality control
5 Variety of Weights	Meets multiple impact resistance requirements



Sto Reinforcing Meshes

Where to Use

80918 Sto Intermediate Mesh: for use as a reinforcing fabric in StoTherm ci Systems. Achieves high impact resistance.

80919 Sto Detail Mesh: lightweight, highly flexible reinforcing fabric specially designed for use to facilitate back-wrapping system terminations, into reveals and for intricate architectural details in StoTherm ci Systems, and to bridge sheathing joints and wrap rough openings in StoGuard® applications.

80920/81920 Sto Mesh / 80985 Sto Mesh 6 oz.: for use as standard reinforcing fabric in StoTherm® ci and StoQuik® Silver Systems,

and in Autoclaved Aerated Concrete (AAC) wall applications. Sto Mesh achieves Standard impact resistance and Sto Mesh 6oz achieves Medium Impact resistance in StoTherm ci Systems.

80921 Sto Armor Mat: for use at ground floors and other areas of anticipated impact or abuse in StoTherm ci Systems. Achieves ultra-high impact resistance when used beneath Sto Mesh.

80922 Sto Armor Mat XX: Sto's heaviest reinforcing fabric, for use at ground floors and other areas of anticipated impact or abuse in StoTherm ci Systems. Exceeds ultra-high impact resistance when used beneath Sto Mesh.

Surface Preparation

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, form release, or any other condition that may affect adhesion.

StoTherm ci Systems: inspect the insulation board surface for planeness, damage or deterioration due to weather or abuse and repair prior to application of reinforcing mesh. Rasp the entire insulation board surface to produce a smooth, level surface.

Application

80918 Sto Intermediate Mesh / 80920/81920 Sto Mesh / 80985 Sto Mesh 6 oz.: Apply a layer of Sto base coat over previously rasped Sto Insulation Board, or, over Cement Board Stucco systems, or, over prepared Autoclaved Aerated Concrete (AAC) wall applications. Work horizontally or vertically in full width strips and fully embed mesh into wet base coat by troweling from center to the edges of the mesh. Avoid wrinkles in the mesh and smooth the base coat to eliminate trowel marks. Double wrap Sto Mesh at all corners and overlap not

less than 2½" (64mm) at mesh seams. Refer to appropriate StoTherm ci System specification for additional details on other Sto meshes.

80919 Sto Detail Mesh: Refer to appropriate StoTherm ci System specification.

80921 Sto Armor Mat/80922 Sto Armor Mat XX: Apply a layer of Sto base coat over previously rasped Sto Insulation Board. Work horizontally or vertically in full width strips and immediately embed mesh into the wet base coat. Butt mesh tightly at seams. Apply Sto Mesh with appropriate base coat over the Sto Armor Mat or Sto Armor Mat XX application when dry. Refer to appropriate StoTherm ci System specification.

Limitations

- Sto Reinforcing Meshes should only be used in accordance with appropriate StoTherm ci or other published Sto specifications.

Health And Safety

Health Precautions

Contains fiberglass. As with any chemical construction product, exercise care when handling.

WARNING!

Causes eye irritation. Causes skin irritation

Precautionary Statements: Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

FIRST AID MEASURES

Eye Contact: Flush with warm running water for 15 min. Do not rub. If irritation persists, consult a physician.

Skin Contact: Wash with mild soap and running water. Use a washcloth to help remove fibers. If irritation persists, consult a physician.

Inhalation: Glass fibers may cause mechanical irritation to the mouth, nose and throat. Remove the person to fresh air.

Ingestion: Unlikely entry route. If symptoms develop consult a physician.

Spills

Collect and dispose of in accordance to local, state or federal regulations.

Disposal

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

Warning

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LIMITED WARRANTY

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

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**S155-80918, 80919,
80920, 81920, 80921,
80922, 80985**
Revision Number: A6.0
Date: 01/2020

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Sto Exterior Coatings Concrete Masonry Units (CMU) Direct Applied with Sto Finishes

Detail No.: 1.01

Date: September
2019**Notes:**

1. Concrete masonry unit (CMU) wall shall be clean and free of efflorescence, dirt and any other materials that may affect the bond of the coatings to the CMU surface.

2. Remove mortar droppings and repair any defects that will affect the final appearance of the wall finish.

3. Apply Sto Basecoat to the CMU and allow to cure for a minimum of 24 hours.

4. Install optional StoPrime and allow to dry.

5. Install Sto Finish Coat and allow to dry.

6. For Sto Specialty Finish primer options, refer to product bulletins or contact Sto Technical Services.

7. Protect coatings from rain, freezing, and continuous high humidity until completely dry.

IMPORTANT: Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

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