

SPEC NOTE: This guide specification covers installation of a textured finish system over building code compliant 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 and conformance with building code requirements.

SPEC NOTE: 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. This specification is specific for Sto Environmental Product Declarations (EPD's), If a needed Sto product isn't listed in the specification it can be added to the specification. This product just won't be part of the EPD accreditation process.

PART 1 GENERAL

1.1 SUMMARY

- .1 Provide textured finish system for vertical above grade exterior concrete, concrete masonry, and stucco wall surfaces.

1.2 SUBMITTALS

- .1 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

- .1 2010 National Building Code of Canada (2010 NBC)

1.4 QUALITY ASSURANCE

- .1 Manufacturer's Qualifications: The textured finish system manufacturer shall be a company with at least thirty five years of experience in manufacturing specialty finishes and regularly engaged in the manufacture and marketing of products specified herein. The manufacturer shall have an ISO 9001:2008 certified quality system and ISO 14001:2004 certified environmental management system.
- .2 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 commercial textured 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.
- .3 Mock-ups: The contractor shall install a mock-up of the system for evaluation and approval by the design professional, building owner, or owner's representative/quality assurance agent.

- .4 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, where a bond inhibiting material is on the surface, where masonry surfaces are soft-burned tile or brick of less strength than base coat, or in any case where the surface is not sound, or adhesion is in question, as directed by design professional, owner, or owner's representative/quality assurance agent.

1.5 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver products in original packaging, labeled with product identification, manufacturer, and batch number.
- .2 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]).
- .3 Handle products in accordance with manufacturer's printed instructions.

SPEC NOTE: Maximum warranty period is achieved with Sto Crack Defense reinforcement layer.

1.6 WARRANTY

- .1 Provide manufacturer's standard limited warranty.

PART 2 PRODUCTS

SPEC NOTE: Select one of the following textured finish options, and delete the finishes not required on the project.

2.1 MATERIALS

- .1 Textured Finish
 - .1 Stolit Lotusan – high performance, factory blended decorative and protective textured wall finish with integral color and Lotus-Effect® technology
 - .2 Stolit Finish – high performance decorative and protective acrylic-based textured wall finish with integral color

SPEC NOTE: The base coat is intended to level concrete or concrete masonry surfaces and is used in conjunction with mesh reinforcement for Crack Defense.

SPEC NOTE: Select one of the following base coat options, and delete the base coats not required on the project.

- .2 Base Coat
 - .1 Sto BTS Plus - one component polymer modified cement-based high build base coat material (for leveling up to 1.6 mm [1/16 inch] in one pass)

SPEC NOTE: Crack Defense is optional. Delete this section if not deploying Crack Defense.

SPEC NOTE: If deploying Crack Defense select one of the base coat options above for use with mesh reinforcement, and delete the base coats not required on the project.

.3 Crack Defense

- .1 Sto Mesh - nominal 153 g/m² (4.5 oz./yd²) symmetrical, interlaced open-weave glass fibre mesh made with alkaline resistant coating for compatibility with Sto materials.

SPEC NOTE: Select one of the following finish options, and delete the finishes not required on the project..

.4 Textured Finish Coat

- .1 Stolit Lotusan Finish – integrally coloured, factory blended textured Lotus-Effect Technology wall finish with graded marble aggregate
- .2 Stolit Finish – integrally coloured, factory blended, acrylic textured wall finish with graded marble aggregate

PART 3 EXECUTION

3.1 INSTALLATION

SPEC NOTE: Coarse texture finishes (equal to or greater than 1.5 mm texturing aggregate) are recommended to hide trowel marks and other minor surface imperfections in the base coat surface. Fine or smooth textured finishes require tighter tolerances than coarse textures. Where fine or smooth texture finishes are used a second application of base coat may be necessary to provide a smooth enough surface for an acceptable finished wall surface. The approved mock up shall be the basis for acceptable tolerances, finished appearance, and the number of layers of base coat or skim coat needed to achieve the finished appearance, as determined by the design professional, owner, or owner's representative/quality assurance agent. Where the wall surface is highly irregular or out of plane the application of StoTherm® ci may be an acceptable means of correcting the wall surface condition, as determined by the design professional, owner, or owner's representative/quality assurance agent.

- .1 Surfaces must be structurally sound, free of laitance or any other surface defects, and free of surface contamination such as grease, oil, wax, dust, dirt, salts, algae, mildew, pollen or any other surface contamination that could inhibit adhesion. Concrete surfaces must be absorbent, slightly pitted or scarified.
- .2 Application
- .1 Install a skim coat of the base coat material to the prepared wall surface by trowel to fill and level the surface and allow to dry.
- .2 Note: refer to this specification (Section 2.1.3) and applicable Product Bulletins for thickness limitations of base coats and select appropriate Product based on "trueness" of wall substrate surface.

SPEC NOTE: Delete step 3.1.5.3 if opting not to deploy Crack Defense.

- .3 Crack Defense Reinforcement Layer: Install nominal 3 mm (1/8 inch) base coat by trowel to the wall surface. Work horizontally or vertically in strips of 1016 mm (40 inches), and immediately embed the mesh into the wet base coat by troweling from the center to the edges of the mesh. Overlap mesh not less than 64 mm (2-1/2 inches) at mesh seams and feather at seams. Double wrap all inside and outside corners with minimum 203 mm (8 inch) 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 finish.
 - .4 Apply the textured finish by trowel. Apply finish in a continuous application, and work to a wet edge. Float the finish to achieve the desired texture.
 - .5 Do not install base coat, reinforcing mesh or finish coat over joint sealants, cold joints, control joints, or accessories. Install over prepared concrete, concrete masonry, or stucco surfaces only.
- .3 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 system. Seal penetrations through the finished wall surface with backer rod and sealant or other appropriate means to provide a watertight condition.

END OF SECTION 09 25 13.13

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.