



Building with conscience.

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

Sto Guide Specification No. 1001
StoQuik® Finish with StoCast Wood for Interior Gypsum Wallboard

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.

Table of Contents

PART 1	GENERAL	3
1.1	SUMMARY	3
1.2	SUBMITTALS.....	3
1.3	REFERENCES	3
1.4	QUALITY ASSURANCE.....	3
1.5	DELIVERY, STORAGE AND HANDLING	4
1.6	WARRANTY.....	4
PART 2	PRODUCTS	4
2.1	MANUFACTURERS.....	4
2.2	MATERIALS	4
2.3	PERFORMANCE REQUIREMENTS.....	5
PART 3	EXECUTION	5
3.1	INSTALLATION.....	5

PART 1 GENERAL

This guide specification covers installation of a Class A, low VOC resin cast wood finish over building code compliant interior gypsum board wall and ceiling construction. The resin cast wood finish is not recommended for use on walls or ceilings requiring high scrub resistance or repeated exposure to chemical cleaners such as shower stalls, food preparation areas, or hospital operating rooms. For more information contact Sto Corp. at 1800 221 2397.

1.1 SUMMARY

- A. Provide resin cast wood grain finish for interior gypsum board wall and ceiling surfaces

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. B117, Standard Practice for Operating Salt Spray (Fog) Apparatus
 - 2. C840, Standard Specification for Application and Finishing of Gypsum Board
 - 3. C920, Standard Specification for Elastomeric Joint Sealants
 - 4. D2247, Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity
 - 5. D3273, Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
 - 6. E84, Standard Test Method for Surface Burning Characteristics of Building Materials
 - 7. E119, Standard Test Methods for Fire Tests of Building Construction Materials
- B. Gypsum Association Standards
 - 1. GA 214, Levels of Finish for Gypsum Panel Products
- C. 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 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. The contractor shall have at least 5 years of experience in specialty finish application and shall have completed at least 3 projects of similar size and complexity. The 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 the 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/ceiling assembly performance and to verify adhesion to prepared substrates before and during construction.

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 MANUFACTURERS

- A. Sto Corp., 3800 Camp Creek Parkway, Building 1400, Suite 120, Atlanta, GA 30331
- B. Obtain primers, adhesives, resin cast wood, stains, specialty coatings and topcoats from single source

2.2 MATERIALS

Note: Priming is required prior to application of resin cast wood finish over new interior gypsum board wall or ceiling surfaces. The primer may be omitted if gypsum board is painted with latex flat paint. If paint is glossy (eggshell, satin, or gloss), de-gloss the surface by lightly sanding, remove dust and any other surface contamination, apply a skim coat of StoCast Wood Adhesive, and verify adhesion.

- A. Primer: StoPrime® Sand - acrylic-based sanded primer for use with StoCast Wood in compliance with South Coast AQMD Volatile Organic Content (VOC) requirements for architectural coatings: less than 50 g/L
- B. Adhesive: StoCast Wood Adhesive - one component acrylic-based adhesive for use with StoCast Wood
- C. Resin Cast Wood: StoCast Wood - thin lightweight, flexible resin cast wood grain planks for use on interior and exterior walls and ceilings.

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

- D. Wood Stain: StoColor Wood Stain - acrylic-based semi-transparent stain for use as a decorative and protective topcoat over StoCast Wood in compliance with South Coast AQMD Volatile Organic Content (VOC) requirements for architectural coatings: less than 50 g/L

Note: select one of the alternative topcoats if not using wood stain

- E. Alternative Topcoats

1. StoTique: antique-effect interior and exterior decorative and protective wall coating
2. StoColor Coat: acrylic-based interior and exterior opaque decorative and protective wall coating
3. StoColor Acryl: acrylic-based interior and exterior opaque decorative and protective wall coating
4. StoColor Metallic: metallic-effect interior and exterior decorative and protective wall coating used in combination with StoColor Metallic Base.

F. Accessories

1. StoSeal STPE Sealant - high-movement, low modulus, non-sag one-component silyl-terminated polyether joint sealant in compliance with ASTM C920

2.3 PERFORMANCE REQUIREMENTS

A. Resin Cast Wood Finished with StoCast Wood Stain

1. Salt Spray: ASTM B117, no deleterious effects at 1000 hours
2. Water Resistance: ASTM D2247, No deleterious effects at 14 days
3. Surface Burning: ASTM E84, flame Spread 0, smoke developed 0
4. Resistance to Mold: ASTM E3273, no growth at 90 days
5. Resistance: ASTM E119, maintains hourly rating of existing non-load bearing wall assembly
6. Organic Content (VOC): less than 50 grams per liter

A. Resin Cast Wood Finished with Alternative Topcoats

1. Surface Burning: ASTM E84, flame Spread less than 25, smoke developed less than 75
2. Complies with applicable South Coast AQMD Rule 1113 Volatile Organic Content (VOC) requirements

PART 3 EXECUTION

3.1 INSTALLATION

A. General Surface Preparation: gypsum board substrates must be clean, dry, and free of surface contamination. Gypsum board must be installed in conformance with ASTM C840 and gypsum board manufacturer's written installation instructions and finished to a minimum Level 4 finish.

B. 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.

C. Application

1. Primer Application: apply the Sto primer by brush, roller, or spray to the prepared gypsum board surface in accordance with the applicable Product Bulletin
2. Resin Cast Wood Application: when the primer is dry install StoCast Wood. Refer to applicable StoCast Wood Adhesive and StoCast Wood Product Bulletins and StoCast Wood Application Guide

3. Topcoat Application: when the StoCast Wood installation is fully adhered, apply StoCast Wood Stain in two coats by brush, roller, or spray; or, apply any of the alternative topcoats. Refer to the applicable product bulletin.
- D. Protection
1. Provide protection of installed materials from water infiltration into or behind them
 2. Provide protection of installed materials from dust, dirt, precipitation, freezing and continuous high humidity until they are fully dry.
 3. Provide adequate ventilation as materials dry to minimize odor

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.