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Sto Specification R502 Guideline Specification for Repair and Resurfacing of Portland Cement Plaster (Stucco)

Section No. 092400 Sto reStore Levels 1 and 2 projects

Note: This specification is intended to give design professionals and restoration contractors guideline instructions for the repair of distress in stucco and resurfacing of stucco. Each repair project is unique and may involve one, more, or all of the repairs that are presented. However, due to the uniqueness of individual projects, other conditions that require specific repair detail design may exist on any project. Conditions that are significantly different from those described herein must be addressed by the project design or construction professional. Stucco is a nonstructural component of wall construction. This specification DOES NOT address correction of structural deficiencies and should not be used until any and all sources of structural cracking or other structural deficiencies are corrected.

The necessity for repairs are often a result of improper construction practice. Select qualified contractors for repair work and verify their references.

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.

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PART 1 GENERAL

1.1 SUMMARY

- A. Repair of distress in portland cement-based plaster (stucco) walls.
- B. Repair non-structural cracks in stucco brown coat and finish.
- C. Provide cleaning of existing wall surface in preparation for resurfacing and/or recoating.
- D. Resurface wall to provide uniform appearance in accordance with owner's requirements.

1.2 SUBMITTALS

- A. Repair and coating manufacturers' specifications, details, installation instructions and product data.
- B. Samples for approval as directed by architect, engineer, or owner. Signed approval of samples required as evidence of acceptance prior to commencing work.
- C. Manufacturer's sample material warranty.
- D. Documented evidence of satisfaction of Contractor requirements, as specified in Section 1.5 Quality Assurance
- E. Copies of all required county and local licenses and permits where applicable.

1.3 REFERENCES

- A. ASTM Standards
 - ASTM C 926 Specification for Portland Cement Plaster
 - ASTM C 1063 Specification of Installation of Lath and Furring to Received Portland Cement-based Plaster
 - ASTM C 920 Specification for Elastomeric Joint Sealants
- B. Other References
 - Sto RC100 reStore Guideline Cleaning Specification for Walls Surfaces
 - Sto Sto Stucco Repair and Maintenance Guide
 - Sto S504 Sto Specification S504Sto Powerwall Stucco
 - NWCB Northwest Wall and Ceiling Bureau (NWCB) Portland Cement Plaster Resource Guide
 - ICRI International Concrete Repair Institute (ICRI) Guidelines for Surface Preparation
 - SWRI Sealant Waterproofing and Restoration Institute (SWRI) Validation Program for Wall Coatings (<http://www.swrionline.org/validation/>)

1.4 DESIGN REQUIREMENTS

- A. A qualified engineer, architect or repair contractor shall provide the services and details listed in this section.

- B. Determine repair scope and detail design requirements based on inspection of the field conditions.
- C. Provide crack repair detail for cracks not wider than 1/16-inch (1.6 mm) nominal width
- D. Provide crack repair detail for cracks wider than 1/16-inch (1.6 mm) but not wider than 1/8-inch (3.2 mm)

1.5 QUALITY ASSURANCE

- A. Manufacturer's requirements
 - 1. Materials used for resurfacing: minimum 20 year history of use for the applications described in this specification
 - 2. Stucco and finish material manufacturer shall be experienced provider of cementitious and polymer-based materials for use in stucco construction and repair for minimum 35 years.
 - 3. Stucco and finish material manufacturer shall have a manufacturing quality control system that is certified to comply with ISO 9001-2015 and an environmental quality management system certified to comply with ISO 14001-2015.
- B. Contractor requirements
 - 1. Contractor shall be licensed and insured and shall have been engaged in stucco and stucco repair construction for minimum three years.
 - 2. Contractor shall be knowledgeable in the proper handling, use and installation of Sto materials.
 - 3. Contractor shall employ skilled mechanics who are experienced and knowledgeable in the repair procedures and requirements of the specified project.
 - 4. Contractor shall have completed minimum three projects of similar size, scope and complexity to the project being specified.
 - 5. Contractor shall provide the proper equipment, manpower and supervision on the job site to perform the repair procedures in accordance with Sto's published repair specifications, applicable Sto details and the contract documents.
- C. Inspection requirements
 - 1. Quality control inspections shall be provided for by the owner or owner's representative.
 - 2. Inspectors shall be qualified by experience to evaluate field conditions before and during the repair process and shall be familiar with the specified repair procedures prior to commencement of work.
 - 3. Inspections shall be provided at key intervals during each repair.
 - 4. Inspect the condition of the water-resistive barrier and transition elements for visible evidence of material integrity and continuity of the system.
 - 5. Inspect the final appearance of each repair location to verify compliance with owner requirements.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver all materials in their original sealed containers bearing manufacturer's name and product identification.
- B. Protect liquid products (pails) from freezing and temperatures greater than 90 degrees F (32 degrees C). Do not store in direct sunlight.
- C. Protect portland cement based materials (bag products) from moisture and humidity. Store under cover and off of the ground in a dry location.

1.7 PROJECT/SITE CONDITIONS

- A. Apply materials only when surface and ambient temperatures are above 40 degrees F (4 degrees C) and are expected to remain above 40 degrees F (4 degrees C) for 24 hours after application.
- B. Provide supplementary heat for installation in temperatures less than 40 degrees F (4 degrees C).
- C. Provide protection of surrounding areas and adjacent surfaces from spillage, splatter, overspray or other unintended contact with the materials that are being applied.

1.8 COORDINATION AND SCHEDULING

- A. Schedule repairs to permit inspections where specified in Section 1.5.
- B. Do not start repairs in an area unless sufficient work can be completed such that the area is weather-tight at the end of the work shift. Alternatively allow sufficient time before the end of the work shift to provide weather protection until work can resume.
- C. Coordinate with all trades involved to schedule work to result in the proper sequencing of materials within the repair including, but not limited to:
 - 1. Proper lapping of water resistive system components and flashing.
 - 2. Proper cure time of sealants
 - 3. Proper cure time of stucco repairs
- D. Schedule finish and coating application to large areas such that each day's application will end at an architectural break.
- E. Coordinate work to provide minimal disruption to Owner. Submit project schedule to Owner prior to commencing work.

1.9 WARRANTY

- A. Provide manufacturer's standard warranty for products used.

PART 2 PRODUCTS

NOTE: Detailed product information is available at www.stocorp.com. Many different products options are presented below. All products may not

*be required. Product selection assistance is available from your local
Sto representative and Sto Corp. Technical Services.*

2.1 MANUFACTURERS

- A. Provide stucco, surface levelling, primer, waterproofing, and coatings (as applicable) from single manufacturer:
 - 1. Sto Corp., 3800 Camp Creek Parkway, Building 1400, Suite 120, Atlanta, GA 30331;
www.stocorp.com, 1-800-221-2397
- B. Provide galvanized metal lath and stucco accessory components from qualified manufacturer.
- C. Provide sealants from qualified manufacturer.

2.2 SURFACE CONDITIONER

- A. Provide acrylic polymer surface conditioner for pre-treatment of friable, chalking, or weathered existing coating surfaces.
 - 1. Product: StoPrime Conditioner – acrylic surface conditioner for preparation of existing painted or finished surfaces that exhibit chalking or weathering.

2.3 GLASS FIBER MESH REINFORCEMENT

- A. Provide alkali resistant, open weave glass fiber mesh reinforcing for surface leveling and waterproof base coat.
 - 1. Products:
 - a. Sto Mesh – alkali-resistant, full width glass-fiber reinforcing mesh for use with Sto base coat products to provide crack resistance.
 - b. Sto Detail Mesh – alkali-resistant, narrow width glass-fiber reinforcing mesh for use with Sto base coats to provide crack resistance

2.4 ACRYLIC-ELASTOMERIC CRACK FILLER

- A. Provide acrylic crack filler.
 - 1. Products:
 - a. Sto Flexible Crack Filler – acrylic-elastomeric gun-grade crack filler packaged in sealant tube for use (unreinforced) in repair of cracks not wider than 1/16-inch (1.6 mm) and up to 1/8-inch (3.2 mm) wide with mesh reinforcement.

2.5 RESURFACING WEATHER-RESISTANT MEMBRANE

- A. Provide weather-resistant acrylic-base coat for resurface applications over existing stucco finishes.
 - 1. Products (*Choose one*):
 - a. Sto RFP – acrylic water-based, single component base coat used with mesh reinforcement to smooth and fill existing textured elastomeric, acrylic or cementitious finish surfaces.
 - b. Sto Flexible Skim Coat – acrylic water-based, single component base coat used with mesh reinforcement to smooth and fill existing textured elastomeric, acrylic, or

cementitious finish coats and with mesh reinforcement for repair of cracks up to 1/8-inch (3.2 mm) wide.

- B. Provide waterproof polymer-modified portland cement-based base coat.
 - 1. Products *(Choose one)*
 - a. Sto Watertight Coat – Pre-packaged, two component cementitious waterproof base coat. Combine two components in field to provide a waterproof base coat. Use with reinforcing mesh to skim areas and features that require waterproofing, as designated on project drawings or by the repair design professional (see 3.9C of this specification).

2.6 PORTLAND CEMENT PLASTER

- A. Provide portland cement stucco scratch and brown coat.
 - 1. Products: *(Choose one)*
 - a. StoPowerwall Stucco (80103) – portland cement-based stucco, field-mixed with water and sand in accordance with product instructions.
 - b. StoPowerwall Stucco Pre-Blended (80102) – factory proportioned portland cement-based stucco combined with water in the field.
 - c. ASTM C 926-compliant field-mixed stucco as listed by Sto Corp.
 - d. ASTM C 926-compliant pre-packaged stucco mix as listed by Sto Corp.

2.7 PRIMER *(Choose one)*

- A. pH resistant acrylic primer
 - 1. Products: *(Choose one)*
 - a. StoPrime Hot
 - b. StoPrime Hot Extra White
- B. Acrylic primer
 - 1. Products *(Choose one)*:
 - a. StoPrime Conditioner
 - b. StoPrime
 - c. StoPrime Sand

2.8 ARCHITECTURAL COATING

- A. Provide architectural coating to provide uniform appearance to repaired walls. *(Choose one)*
 - 1. Elastomeric Coating Products:
 - a. StoColor Lastic – elastomeric architectural coating for stucco, masonry and concrete.
 - b. StoColor Silcolastic – silicone-enhanced elastomeric architectural coating for stucco, masonry and concrete.
 - 2. Acrylic Coating Products:

- a. StoColor Dryonic – smooth acrylic architectural coating with engineered micro-texture for quick façade drying.
- b. StoColor Lotusan – smooth acrylic architectural coating with *Lotus-Effect®* Technology (pronounced self-cleaning properties).
- c. StoColor Acryl Plus – smooth acrylic premium architectural coating
- d. StoColor Acryl Flat – smooth acrylic architectural coating

2.9 TEXTURED FINISH

- A. Provide polymeric elastomeric or acrylic finish. Color and texture to be determined based on mockup. (*Choose one*)
 1. Elastomeric Finish products
 - a. Sto Powerflex – Elastomeric acrylic textured stucco finish
 - b. Sto Powerflex Silco – Elastomeric acrylic textured stucco finish with silicone enhancement.
 - c. Sto Powerwall Finish – flexible acrylic textured stucco finish
 2. Acrylic Finish Products
 - a. Stolit – Acrylic textured finish (better than industry standard acrylic finish)
 - b. Stolit Lotusan – Acrylic textured finish with *Lotus-Effect®* Technology (*maximum water repellency, significantly reduced cleaning requirements over time*)
 - c. StoSilco Lit - Acrylic textured finish to help reduce cleaning requirements
 3. Specialty Acrylic Decorative Finishes (If applicable)

NOTE: *These finishes are accent or specialty stucco finishes. These products require application of mesh-reinforced base coat and primer coat prior to finish installation and may require significant additional surface preparation and clear sealer for exterior use. See written installation instructions for the specified product and specify accordingly.*

- a. Sto Decocoat – trowel or spray-applied colored aggregate textured finish
- b. Sto Granitex – spray applied colored aggregate finish with coarse texture
- c. StoCreativ Granite – trowel applied colored aggregate faux granite finish
- d. StoCreative Lux – trowel applied colored aggregate faux granite finish with reflective accent
- e. StoTique – faux finish translucent surface application for smooth or textured Sto acrylic finishes to produce mottled color and old-world appearance.

2.10 MIXING

- A. Mix in accordance with manufacturer's printed instructions.
- B. Mix cementitious products with clean, potable water.

PART 3 EXECUTION

3.1 ACCEPTABLE INSTALLERS

- A. Prequalify repair contractor under Quality Assurance requirements of this specification (section 1.5B).

3.2 EXAMINATION

- A. Inspect locations identified on the project drawings for repair.
- B. Establish clear understanding of the repair scope and process with the mechanics that will perform the work for each individual location.

3.3 SELECTIVE DEMOLITION

- A. Use hearing, eye, ear and respiratory personal protective equipment when performing demolition.
- B. Provide adequate protection to persons and property from potential falling debris from demolition and repair construction.
- C. Stucco Removal:
 - 1. Saw cut perimeter of repair area with a masonry blade set to a depth that will not cut into the sheathing.
 - 2. Chip stucco at the edges of the saw cut to provide a minimum ½-inch perimeter of exposed lath where lath is to be repaired or replaced.
 - 3. Remove stucco such that patches will be square or rectangular shaped. Avoid re-entrant corners within patches and constructing patches with greater than 2.5: 1 length-to-width ratios.
- D. Finish removal:
 - 1. Remove finish where required to cosmetically match finish texture with surrounding unaltered stucco. Finish shall be removed minimum 1-inch (25mm) around the perimeter of saw-cut or chipped areas, and on both sides of cracks to be repaired using crack-filling and bridging techniques. (Note: removal of finish can be omitted along crack repairs. However, a trial area should be done to verify that the finished appearance will comply with owner requirements because the crack repair will likely be visible.)
 - 2. Finish removal shall be by grinding, scraping, or chemical stripping product approved by the design professional.

3.4 REPAIR OF CRACKS 1/16-INCH (1.6 mm) WIDE AND SMALLER

- A. Cracks not wider than 1/32-inch (0.8 mm) (hairline cracks).
 - 1. Clean existing surface in accordance with Sto reStore Cleaning Specification RC100
 - 2. Seal crack with Sto Flexible Crack Filler and tool surface flush with brown coat.
- B. Cracks not wider than 1/16-inch (1.6 mm)
 - 1. Remove finish along crack as specified in section 3.3C.

2. Clean crack using oil-free compressed air.
3. Seal crack with Sto Flexible Crack Filler and tool surface flush with brown coat.
4. Apply new finish or coating to match surrounding texture and color.

3.5 REPAIR OF CRACKS 1/16-INCH (1.5mm) WIDE TO MAXIMUM 1/8-INCH (3.2mm) WIDE

- A. Remove finish along crack as specified in section 3.3C.
- B. Clean crack using oil-free compressed air.
- C. Fill crack with Sto Flexible Crack Filler and tool surface flush.
- D. Apply Sto resurfacing material (selected from section 2.5 of this specification) along both sides of crack and tool flat. Embed 2-inch wide (50 mm) strip Sto Detail Mesh generally centered on crack and tool into fresh Sto skim coat material using taping knife. Tool smooth to the thickness required to fully embed the mesh (approximately 1/16-inch (1.6 mm) thick). Allow Sto resurfacing to dry completely before applying finish.
- E. Apply new finish or coating to match surrounding texture and in selected color.

3.6 SURFACE DEFECT REPAIR

- A. Localized finish repair
 1. Remove affected finish in accordance with section 3.3C of this specification.
 2. Clean exposed brown coat surface to remove all dust, dirt, and other bond-inhibiting materials.
 3. Apply specified Sto primer in accordance with written product instructions.
 4. Apply specified Sto finish or coating to match surrounding stucco texture and in selected color.
- B. Localized brown coat repair within field of wall
 1. Remove stucco in accordance with section 3.3 of this specification.
 2. Remove stucco minimum 2-inches (50 mm) in all directions beyond area of concern where lath replacement is required.
 3. Remove and replace damaged or corroded lath.
 - a. Remove damaged lath minimum 1-inch (25 mm) in all directions beyond area of concern.
 - b. Repair water-resistive barrier system as necessary to correct any damage that is either pre-existing or caused by stucco and lath removal operations.
 - c. Cut replacement lath to provide minimum 1/2-inch (12.5 mm) overlap on all sides.
 - d. Wire tie new lath to existing lath at maximum spacing of 8-inches (203 mm).
 - e. Provide minimum 4 wire ties for small lath replacements.
 4. Mix and apply stucco scratch and brown coats in accordance with ASTM C 926 to match existing stucco thickness. Cover with polyethylene sheeting or otherwise moist-cure for minimum 48-hours.

5. Where finish or coating is specified directly to new stucco, prime the new stucco brown coat surfaces with specified Sto primer prior to finish application.
6. Where further surface leveling or surface applied waterproofing is specified, apply waterproof base coat after completion of the 48-hour cure period.

C. Remedial accessory installation

1. Remove stucco in accordance with section 3.3 of this specification.
2. Remove stucco a sufficient distance from accessory to permit removal of the existing accessory and wire-tie connection of new accessory.
3. Remove and replace damaged accessories
 - a. Cut damaged section of existing accessory and remove from wall.
 - b. Repair water-resistive barrier system if damage is present or occurs as a result of the accessory removal.
 - c. Wire tie new accessory to existing lath at maximum spacing of 8-inches (203 mm).
 - d. Provide minimum 4 wire ties for small lengths of replacement.
4. Align new sections of corner and casing beads carefully to match adjacent accessories.
5. Set both ends of all accessory replacement pieces in wet sealant. Mix and apply stucco scratch and brown coats in accordance with ASTM C 926 to match existing stucco thickness. Cover with polyethylene sheeting or otherwise moist-cure for minimum 48-hours.
6. Where finish is specified directly to new stucco, prime the new stucco brown coat surfaces with specified Sto primer prior to finish application.
7. Where further surface leveling or surface applied waterproofing is specified, apply waterproof base coat after completion of the 48-hour cure period.

D. New accessory installation

1. Remove stucco in accordance with section 3.3 of this specification in locations where required accessories are not present.
2. Install new corner beads, casing beads, weep screeds or other accessories in accordance with ASTM C 1063.
3. Set ends of accessories in wet sealant.
4. Mix and apply stucco scratch and brown coats in accordance with ASTM C 926 to match existing stucco thickness. Cover with polyethylene sheeting or otherwise moist-cure for minimum 48-hours.
5. Where finish is specified directly to new stucco, prime the new stucco brown coat surfaces with specified Sto primer prior to finish application.
6. Where further surface levelling or surface applied waterproofing is specified, apply waterproof base coat after completion of the 48-hour cure period.

3.7 STUCCO DELAMINATION FROM CONCRETE SUBSTRATES

- A. Define repair area based on sounding and remove stucco to sound substrate.
- B. Extend repairs laterally to adjacent well-bonded material.

- C. Scarify or chip concrete substrates to provide a surface profile sufficient for bonding of new stucco application.
- D. Achieve ICRI surface profile minimum SP-3
- E. Clean prepared surface to remove all dust, dirt, laitance, oils and other potentially bond inhibiting materials.
- F. Check ability of surface to receive directly bonded stucco by checking for absorption of water into the concrete. If water does not readily absorb into concrete, provide additional surface preparation or mechanical anchorage for stucco.
- G. Install stucco in accordance with product instructions.

NOTE: A surface-applied bonding agent may be used, however, use of a bonding agents is not a substitute for mechanical surface preparation of cast-in-place or pre-cast concrete surfaces to receive directly bonded stucco. In all cases, with or without a bonding agent, verify adhesion of the stucco with adequate field testing after at least 28 day age of repair. Conduct field adhesion verification tests throughout the course of the project with agreed upon frequency established by the design professional and owner or owner's representative.

3.8 RESURFACING

- A. Surface Preparation
 - 1. Surfaces must be clean, dry, and free of frost, damage, and all bond-inhibiting materials, including, but not limited to mildew, dust, dirt, efflorescence, form oil, and other foreign matter.
 - 2. Loose or damaged material must be removed by water blasting, sandblasting or mechanical wire brushing and repaired.
- B. Storage and Mixing
 - 1. Protect from extreme heat, freezing, and direct sunlight
 - 2. Mix with a clean, rust-free electric drill and paddle. A small amount of clean, potable water may be added to aid workability
- C. Resurfacing
 - 1. Apply Sto RFP only to sound and clean, dry, properly prepared, frost-free surfaces.
 - 2. Apply Sto RFP only when surface and ambient temperatures are above 40°F (4°C) and below 100°F (38°C) during application and drying period.
 - 3. Do not apply in freezing conditions or during precipitation or if precipitation is imminent.
 - 4. Apply Sto RFP with a stainless steel trowel, to an approximate thickness of 1/16" to 3/32". Work horizontally or vertically in strips of 40" and immediately embed Sto Mesh into the wet Sto RFP by trowelling from the center to the edges of the mesh. Avoid wrinkles in the mesh and smooth the base coat to eliminate trowel marks. Sto RFP must completely hide the reinforcing mesh when dry. Remove trowel marks and allow to dry completely.
 - 5. If the final coat is a smooth coating apply a second coat of Sto RFP, after the first coat has dried overnight, to hide the reinforcing mesh. Once applied, the working time is up to 20 minutes depending upon material, ambient temperatures and surface conditions.

6. Avoid trowel marks in the second coat application of Sto RFP. If needed, trowel marks can be lightly sanded down after the material has completely dried.
 7. Allow second coat application to dry overnight prior to primer application.
- D. Skim Coat for Crack remediation
1. Apply glass-fiber mesh reinforced base coat to remediate frequent fine cracks (less than 1/16-inch (1.6 mm) wide) and provided additional crack prevention. *(choose one)*
 - a. Sto Flexible Skim Coat
 - i. Apply Sto Flexible Skim Coat over stucco surfaces with existing elastomeric finishes by trowel to a nominal thickness of 1/16-inch (1.6 mm).
 - ii. Use trowel to fully embed Sto Mesh in the freshly applied Sto Flexible skim coat. Overlap runs of mesh minimum 2 1/2-inches (62.5 mm).
 - iii. Allow Sto Flexible Skim Coat to fully dry before applying finish.
- E. Skim Coat Surface-Applied Waterproofing for Sloped or Horizontal Surfaces
1. Apply glass fiber mesh reinforced waterproof base coat to areas specified on the project drawings.
 - a. Sto Watertight Coat
 - i. Mix Sto Watertight Coat components A and B in accordance with Sto written instructions.
 - ii. Apply Sto Watertight Coat to prepared base coat or finish to a nominal 1/16-inch (1.6 mm) thickness.
 - iii. Fully embed Sto Mesh into Sto Watertight Coat.
 - iv. Allow Sto Watertight Coat to dry completely before finish application.

3.9 Finish or Coating *(Choose one)*

- A. Prepare surface to receive Sto coating in accordance with Sto reStore Cleaning specification RC100.
- B. Apply primer as outlined in section 2.8 first, then select either 3.9C or 3.9D based on the owner/designer selection.
- C. Apply Sto textured finish in accordance with Sto written instructions for the specified product.
- D. Apply Sto coating in accordance with Sto written instructions for the specified product.

END OF SECTION

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