CSI SECTION 09 25 13 – Acrylic Plaster – Decorative Finish

SYSTEM OVERVIEW

This specification is designed for use with interior acrylic plaster finish applications over new or existing prepared gypsum drywall, cement board, or gypsum plaster. Please contact Parex USA's Architectural Sales (866-516-0061) or Technical Support Department (800-226-2424) for use over other substrates and if further information is required.

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Manufacturer's requirements for the proper design, use, and installation of a decorative acrylic wall texture plaster finishing system over new or existing gypsum drywall, cement board or cement plaster base prepared to a [Level 3, Level 4 or Level 5 based on texture selected] finish or equivalent.

1.2 RELATED SECTIONS

A. Section 03 30 00 - Cast-in-Place Concrete

B. Section 04 20 00 - Unit Masonry

C. Section 06 10 00 - Rough Carpentry: Partition Framing for Plaster

D. Section 06 16 00 - Sheathing

E. Section 07 62 00 - Sheet Metal Flashing and Trim

F. Section 07 90 00 - Joint Protection

G. Section 08 50 00 - Windows

H. Section 09 21 16 - Gypsum Board Assemblies

I. Section 09 22 16 - Non-Structural Metal Framing: Metal Stud Framing and Furring for Plaster

J. Section 09 23 00 - Gypsum Plastering

1.3 REFERENCES

A. ASTM C631 Standard Specification for Bonding Compounds for Interior Gypsum Plastering

B. ASTM C1047 Standard Specification for Accessories For Gypsum Wallboard and Gypsum Veneer Base

C. ASTM C1135 Test Method for Determining Tensile Adhesion Properties of Structural Sealants

D. ASTM C1629 Standard Classification for Abuse-Resistant Non-decorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels

E. ASTM C1396 /C1396M Standard Specification for Gypsum Board

F. ASTM C840   Standard Specification for Application and Finishing of Gypsum Boar

G. ASTM C1658 Standard Specification for Glass Mat Gypsum Panels

H. GA-214-10 Recommended Levels of Gypsum Board Finish

I. GA-216-10 Application and Finishing Of Gypsum Panel Products

J. GA-600 Fire Resistance Design Manual; Gypsum Association; 2009

1.4 ASSEMBLY – DECORATIVE ACRYLIC PLASTER

A. Variance Decorative Acrylic Plaster Finish: This system includes a gypsum-based drywall, minimum [Level 3, Level 4 or Level 5, based on texture selected] drywall finish in accordance with Gypsum Association's GA-214 *Recommended Levels of Gypsum Board Finish* using standard joint compound, drywall tape, [a 100% acrylic tinted primer,] a single-component, integrally colored interior/exterior acrylic plaster, [acrylic-based accent stain], [and clear sealer].

1.5 SUBMITTALS

A. General: Submit samples, product data, shop drawings, warranties and certificates in accordance with

Division 01 General Requirements Submittal Section.

B. Submit product data and application instructions for all acrylic plaster finish materials, shop drawings, system samples, and system manufacturer's applicator certificate of approval and letter of confirmation that materials meet or exceed specified requirements.

1.6 QUALITY ASSURANCE

A. Qualifications:

1. All acrylic plaster finish assembly materials must be manufactured or sold by a single-source manufacturer and must be purchased direct from the manufacturer or its authorized distributor.

2. Manufacturer must have at least 5 years experience in the plaster and interior and exterior specialty finishes business.

B. Regulatory Requirements: Conform to applicable code requirements for finish system.

C. Field Samples: Construct one field sample panel for each color and texture, illustrating surface finish, color and texture. Samples shall be of materials specified and of suitable size as required to accurately represent each color and texture used on the project. Prepare each sample using same tools and techniques for actual project application. Locate sample panel where directed and maintain and make available approved samples at the job site.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials in original packaging with manufacturer's identification.

B. Storage: Store materials in a cool, dry location, out of sunlight, protected from weather and other harmful environment, and at a temperature above 50°F (10°C) and below 80°F (27°C) for 24 hours prior to, during and after operations, until building heating system can maintain the above minimum temperature. Comply with manufacturer's instructions.

1.8 PROJECT / SITE CONDITIONS

A. Installation Ambient Air Temperature: Minimum of 50°F (10°C) and rising, and remain so for 24 hours prior to, during and after operations, until building heating system can maintain the above minimum temperature.

B. Substrate Temperature: Do not apply materials to substrates whose temperature are below 50°F (10°C) or contain frost or ice.

C. Inclement Weather: Do not apply materials during inclement weather unless appropriate protection is employed.

D. Sunlight Exposure: Avoid, when possible, installation of the materials in direct sunlight. Application of acrylic finishes in direct sunlight in hot weather may adversely affect aesthetics.

E. Materials shall not be applied if ambient temperature exceeds 80°F (27°C) or falls below 50°F (10°C) within 24 hours of application. Protect materials from uneven and excessive evaporation during hot, dry weather.

F. Prior to installation, the substrate shall be inspected for surface contamination, levelness or other defects that may adversely affect the performance of the materials and shall be free of residual moisture.

1.9 COORDINATION AND SCHEDULING:

A. Coordination: Coordinate materials installation with related work of other trades and construction operations.

B. Coordinate installation schedule of trim, terminations, sealants and adjacent materials to ensure proper and clean terminations.

1.10 WARRANTY

A. Warranty: Upon request, at completion of installation, provide manufacturer's Standard Limited Warranty.

B. Compliance with Variance® project review requirements and notification procedures to assure qualifications for warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Basis of Design: Variance Specialty Finishes by Parex USA, Inc., 4125 E. La Palma Ave., Suite 250, Anaheim, CA 92807 Contact: Keith Simchuck, Architectural Sales & National Accounts Manager (714)319-7690 or (866)516-0061 or Technical Support (800-226-2424).

B. Components: Obtain components of abuse-resistant acrylic finish components from authorized distributors. No substitutions or additions of other materials are permitted without prior written permission from the acrylic finish manufacturer for this project.

2.2 MATERIALS

A. Joint Treatment:

1. Joint Compound for Interior Gypsum Wallboard: For embedding tape and coating joints, fasteners, and trim flanges.

[B. Primer:

[1. VariPrime: A 100% acrylic-based, vapor permeable, tintable primer designed to reduce variations in surface absorption, improve finish coverage, and improve consistency of finished aesthetics.

[2. VariPrime Sanded: A 100% acrylic-based, vapor permeable, tintable primer designed for use with exposed aggregate and heavily textured finishes to reduce variations in surface absorption, improve finish coverage, and improve consistency of finished aesthetics.

C. Surface Leveler and Basecoat:

[1. OmniCoat: An integrally colored, acrylic polymer based, semi-translucent, trowel applied, multi-purpose basecoat and finish material used to create the look of mottled veneer plaster.

[2. Alto: An integrally colored, acrylic polymer based, trowel applied, multi-purpose basecoat and finish material designed for use with acrylic plaster finishing systems.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE ONE FINISH TYPE, TEXTURE, & COLOR

D. Decorative Acrylic Finish:

[1. OmniCoat: An integrally colored, acrylic polymer based, semi-translucent, trowel applied, multi-purpose basecoat and finish material used to create the look of mottled veneer plaster. Finish type, texture, and color as selected by Project Designer.

[2. Alto: An integrally colored, acrylic polymer based, trowel applied, multi-purpose basecoat and finish material designed for use with acrylic plaster finishing systems. Finish type, texture, and color as selected by Project Designer.

[3. Anciano: An integrally colored, acrylic polymer based, trowel applied plaster finish with visible pigmented particles that create the look of distressed, old world plaster or natural stone effects. Finish type, texture, and color as selected by Project Designer.

[4. Tierra: An integrally colored, acrylic polymer based, trowel applied plaster finish with visible pigmented particles that create the look of a lightly mottled veneer or distressed, old world plaster. Finish type, texture, and color as selected by Project Designer.

[5. Tuscan Stucco: An integrally colored, acrylic polymer based, trowel applied plaster finish that offers maximum design flexibility to create a wide range of finish textures – from sanded super smooth to coarse, knock-down textures used to create unique decorative effects. Finish type, texture, and color as selected by Project Designer.

[6. Brio: An integrally colored, acrylic polymer based, semi-translucent, trowel applied high gloss plaster finish that creates the look of beautiful, polished lime-based Italian plaster.

[7. Variance Specialty Stone Finish, [Cerastone, Spraystone, Tuffstone Granite]: Attractive multi-color wall finish made of color aggregates.

[8. Variance Aged Limestone, [Fine or Coarse]: An acrylic polymer modified decorative plaster finish designed to create the look of a limestone finish or old world patina.

[E. Accents/Stains:

[1. VariStain: A low viscosity, acrylic polymer based accent stain designed for use over Variance trowel applied finishes to enhance wall aesthetics and increase design flexibility.

[2. Antiquing Gel: A water-based, vapor-permeable, semi-transparent, acrylic emulsion designed for use as an accent stain and low-sheen sealer to create antiquing effects. Roller or sponge application allows easy creation of sophisticated effects; the water-based formulation allows for easy correction during application.

[3. Lustro: A high-performance epoxy-acrylic hybrid accent sealer designed to improve resistant to moisture, chemicals, stains, scratches and scuffs while adding a metallic shimmer effect.

[F. Sealer:

[1. PlasterShield [Gloss or Satin]: a trowel or blade applied, high performance epoxy-acrylic hybrid sealer designed to improve resistance to stains, chemicals, scratches and scuffs, and add depth of color.

[1. VariSeal [Gloss or Matte]: a spray or roller applied, high performance epoxy-acrylic hybrid sealer designed to improve resistance to stains, chemicals, scratches and scuffs, and add depth of color.

G. Water: Clean, cool, potable water.

2.3   RELATED MATERIALS AND ACCESSORIES

A. Substrate:

1. Standard paper faced gypsum wallboard – [Level 3, Level 4 or Level 5, based on texture selected] conventional joint finishing and surface prep (ASTM C475). See Section 2.2A.

2. Standard gypsum veneer base, ASTM C1396/C1396M. Size to minimize joints in place. Reinforce joints to receive acrylic veneer plaster with paper or mesh tape. Prepare to [Level 3, Level 4 or Level 5, based on texture selected].

3. Cement plaster base: Prepare to [Level 3, Level 4 or Level 5, based on texture selected].

4. Other approved by manufacturer in writing prior to the project.

B. Accessories:

1. Gypsum Veneer Base Trim Accessories: Zinc-coated steel or plastic, complying with ASTM C1047.

2. Interior Gypsum Board Accessories: Complying with ASTM C1047.

3. Joint Reinforcing for Gypsum Veneer Base: As specified in ASTM C587.

4. Fasteners: As specified in ASTM C844.

C. Flashing: Refer to Division 07 Flashing section for flashing materials.

D. Sealant System: Refer to Division 07 Joint Sealants section for sealant materials.

1. Acoustical Sealant: Non-hardening, non-skinning, for use in conjunction with gypsum board assemblies.

2. Joint design, surface preparation, and sealant primer shall be based on sealant manufacturer's recommendations and project conditions.

EDITOR NOTE: PART 3 EXECUTION BELOW INVOLVES ONSITE WORK AND SHOULD INCLUDE PROVISIONS FOR INCORPORATING MATERIALS AND PRODUCTS INTO PROJECT. TYPICALLY, "CONDITIONS OF THE CONTRACT" ESTABLISH RESPONSIBILITY FOR "MEANS, METHODS, TECHNIQUES, AND SAFETY" REQUIREMENTS OF CONSTRUCTION WITH CONTRACTOR. SPECIFICATIONS SHOULD AVOID CONFLICTS WITH THIS CONTRACTUAL PRINCIPLE.

PART 3 - EXECUTION

3.1   EXAMINATION

A. Verify project site conditions under provisions of Section 01 00 00.

B. Compliance: Comply with manufacturer's instructions for installation.

C. Substrate Examination:

1. Verify that substrates are ready to receive work.

2. Substrate must be dry, clean, cured, sound and free of dust, dirt, laitance, efflorescence, releasing agents, oils, paint, and other harmful contaminants.

3. Verify gypsum wall board substrate is flat, joints are taped and sanded smooth, and that the surface is ready to receive work of this Section. Verify joint and surface perimeter accessories are in place.

4. Verify gypsum veneer plaster base is flat, smooth, joints are reinforced, and surface is ready to receive work. Verify joint and surface perimeter accessories are in place.

5. Substrate construction must be securely fastened and structurally sound in accordance with substrate material manufacturer's specifications and applicable building codes.

D. Advise Contractor of discrepancies preventing proper installation of the veneer plaster materials. Do not proceed with the work until unsatisfactory conditions are corrected.

3.2 PREPARATION

A. Protection: Protect surrounding material surfaces and areas during installation of system.

B. Clean surfaces thoroughly prior to installation.

C. Remove projections greater than 1/8 inch (3mm) and fill depressions greater than 1/4 inch (6mm) with Portland cement mortar.

D. Interior drywall should be finished to a minimum [Level 3, Level 4 or Level 5, based on texture selected] finish. Prepare surface to a maximum tolerance of 1/8 inch in 10 feet when placing a straight edge anywhere on the wall(s).

E. For previously painted surfaces, all loose, flaking, delaminating and chalking paint must be removed, and glossy surfaces dulled.

F. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

G. Use proper safety procedures during joint and wall preparation and sanding to avoid inhaling particulate dust and turn off HVAC units to prevent intake of sanding dust into ductwork.

H. Unsatisfactory conditions must be corrected before the application of the coatings.

I. Apply tinted VariPrime to prepare masonry surfaces within 24 hours of acrylic veneer plaster application. Apply in accordance with manufacturer's instructions.

3.3 MIXING

A. Mix materials in accordance with manufacturer's instructions.

B. No additives are permitted unless specified in published product mixing instructions. Close containers when not in use.

C. Prepare in a clean container free of foreign substances. Do not use containers which have contained or been cleaned with petroleum-based products.

D. Refer to technical bulletins for detailed mixing instructions.

E. Clean tools with soap and water immediately after use.

3.4 APPLICATION – Gypsum Plaster Base

A. General: Installation shall conform to this specification and manufacturer's written instructions.

B. Install gypsum base in accordance with ASTM C844.

C. Use drywall screws to fasten gypsum base to framing substrate.

D. Single Layer Base at _____:

1. Install gypsum board vertical, with ends and edges occurring over firm bearing.

2. At furred partition faces, place 4 inch (100mm) wide strip of gypsum board, same thickness as furring, at perimeter of wall openings and partition.

E. Double Layer Base at _____:

1. Erect first layer of gypsum board, perpendicular to framing or furring members.

2. Place second layer of gypsum board, perpendicular to first layer. Ensure end joints of second layer do not occur over joints of first layer.

3. Secure second layer with adhesive and sufficient support to hold in place. Apply adhesive in accordance with manufacturer's instructions.

F. Install accessories:

1. Cornerbead: Use at outside corners[, **unless otherwise indicated**].

2. Bullnose Bead: Use [**at outside corners**] [**where indicated**] <**Insert requirements**>.

3. LC-Bead: Use [**at exposed panel edges**] <**Insert requirements**>.

4. L-Bead: Use [**where indicated**] <**Insert requirements**>.

5. U-Bead: Use [**at exposed panel edges**] [**where indicated**] <**Insert requirements**>.

6. Curved-Edge Cornerbead: Use at curved openings.

G. Joint Treatment:

1. Apply three (3) coats of Drywall joint compound in conjunction with drywall tape. Fill and finish smooth. Wet sand/trowel filled joints, edges, corners, openings, and trim to produce surface ready to receive acrylic veneer finish.

2. Feather coats onto adjoining surfaces so that joint camber is a maximum 1/32 inch (0.8mm).

H. Install acoustical sealant within partition assembly in accordance with manufacturer's instructions.

I. Install acoustical sealant at gypsum board perimeter at:

1. Metal Framing: One bead.

2. Perimeter interruptions.

3. Seal all penetrations of partitions by conduit, pipe, ducts, and rough-in boxes.

3.5 APPLICATION – Abuse Resistant Acrylic Plaster Finish

A. Install in accordance with ASTM C843 and manufacturer's instructions.

[B. Primer:

1. Apply primer according to manufacturer's published instructions and allow to dry completely.

C. Surface Leveler and Basecoat:

[1. Apply integrally colored OmniCoat surface leveler and basecoat material with a standard stainless steel plaster trowel or a Venetian trowel. Apply the first coat using decorative ,multi-directional trowel strokes. Achieve the bulk of the filling/leveling the substrate will require with the

first coat to achieve a [Level 3, Level 4 or Level 5, based on texture selected] substrate. Overlap each stroke approximately 50% to produce an even finish.

[2.   Apply integrally colored Alto surface leveler and basecoat material with a standard stainless steel plaster trowel or a Venetian trowel. Achieve the bulk of the filling/leveling the substrate will require with the first coat to achieve a [Level 3, Level 4 or Level 5, based on texture selected] substrate. Overlap each stroke approximately 50% to produce an even finish.

3.   Allow the surface leveler and basecoat to dry completely before finish application.

4.   Inspect the basecoat and scrape or sand down high trowel marks and lap lines before proceeding.

D.   Finish Coat:

[1.   OmniCoat:

a.   Apply the finish application of OmniCoat slightly thinner than the first basecoat using multi-directional, decorative trowel strokes. After this second coat had dried completely, it can be polished using a clean, dry stainless steel trowel, or water-trowelled to increase mottling.

b.   Allow each application to take a set or dry completely before application of additional coats.

c.   Allow finish material to dry completely before application of accent stains or sealers.

[2.   Alto:

a.   Apply the finish application of Alto with a standard stainless steel plaster trowel using multi-directional, decorative trowel strokes using the largest aggregate in the plaster mortar to gauge thickness. [Apply in a full coverage coat to create a smooth plaster finish. After the finish application dries slightly, mist and water-trowel smooth.] [Texture the finish application, leaving some of the basecoat exposed to create a distressed, old world appearance. After the finish application dries slightly, mist and water-trowel smooth as needed to create the desired aesthetic.]

b.   After the second coat has dried to the touch, it can be slightly polished using a clean, dry stainless steel trowel.

c.   Allow each application to take a set or dry completely before application of additional coats.

d.   Allow finish material to dry completely before application of accent stains or sealers.

[3.   Anciano:

a.   Apply the finish application of Anciano with a standard stainless steel plaster trowel using multi-directional, decorative trowel strokes using the largest aggregate in the plaster mortar to gauge thickness. [Apply in a full coverage coat to create a semi-smooth plaster finish. After this second coat dries slightly, water-trowel smooth.] [Texture the finish application, leaving some of the basecoat exposed to create a distressed, old world appearance. After the finish application dries slightly, mist and water-trowel smooth as needed to create the desired aesthetic.]

b.   After the second coat has dried to the touch, it can be slightly compressed using a clean, dry stainless steel trowel.

c.   Allow each application to take a set or dry completely before application of additional coats.

d.   Allow finish material to dry completely before application of accent stains or sealers.

[4.   Tierra:

a.   Apply the finish application of Tierra with a standard stainless steel plaster trowel using multi-directional, decorative trowel strokes using the largest aggregate in the plaster mortar to gauge thickness. [Apply in a full coverage coat to create a smooth plaster finish. After this second coat dries slightly, water-trowel smooth.] [Texture the finish application, leaving some of the basecoat exposed to create a distressed, old world appearance. After the finish application dries slightly, mist and water-trowel smooth as needed to create the desired aesthetic.]

b.   After the second coat has dried to the touch, it can be slightly polished using a clean, dry

stainless steel trowel.

      c.   Allow each application to take a set or dry completely before application of additional coats.

      d.   Allow finish material to dry completely before application of accent stains or sealers.

[5.   Tuscan Stucco:

      a.   Apply the finish application of Tuscan Stucco with a standard stainless steel plaster trowel, float, brushes, or rollers to produce intended results. The finished surface can be sanded using 220 grit or finer sandpaper to remove high points. After sanding, wipe the surface with a clean damp cloth and allow to dry completely prior to proceeding.

      b.   Follow manufacturer's instructions to create the desired [smooth, textured, fine textured, two-tone, special effect, custom] finish.

      c.   Allow each application to take a set or dry completely before application of additional coats.

      d.   Allow finish material to dry completely before application of accent stains or sealers.

[6.   Brio:

      a.   Apply the first finish application of Brio using a Venetian trowel in a very thin layer using multi-directional, decorative trowel strokes. Allow to dry.

      b.   Apply a second coat of Brio in a very thin layer using overlapping, multi-directional decorative trowel strokes.

      c.   As soon as the material is no longer tacky, begin burnishing using a Venetian trowel. Burnish until the desired level of polish has been achieved.

      d.   Allow finish material to dry completely before application of accent stains or sealers.

[7.   Variance Specialty Stone Finish, [Cerastone, Spraystone, Tuffstone Granite]:

      a.   Follow manufacturer's published instructions for [Cerastone, Spraystone, Tuffstone Granite] finish.

      b.   Allow finish material to dry completely before application of accent stains or sealers.

[8.   Variance Specialty Stone Finish, Aged Limestone [Fine or Coarse]:

      a.   Follow manufacturer's published instructions to achieve the Aged Limestone [smooth, semi-smooth, textured] finish.

      b.   Allow finish material to dry completely before application of accent stains or sealers.

ACCENT STAINS MAY BE INCORPORATED TO ACHIEVE DESIRED AESTHETICS. MODIFY SPECIFICATION AS NEEDED TO ACHIEVE THE DESIRED RESULTS.

[E.   Accents/Stains:

[1.   Apply accents and stains in accordance with manufacturer's instructions, using application methods and sequencing as required to achieve the desired aesthetic.

[F.   Sealer:

[1.   Apply sealer in accordance with manufacturer's instructions. Allow the sealer to dry for 48 hours before receiving moisture.

G.   Apply a clear, silicone modified acrylic latex based caulk at all terminations.

3.6   CLEAN-UP

A.   Removal: Remove and legally dispose of veneer plaster materials from job site.

B.   Remove wet primers, and finish material from tools and equipment with water or solvent as appropriate. Remove dried materials mechanically.

C.   Clean surfaces and work area of foreign materials resulting from material installation.

3.7   PROTECTION

A.   Provide protection of installed materials at the end of each day to prevent water infiltration into or

behind them.

B. Provide protection of installed materials from dust, dirt, precipitation, and freezing during installation, and continuous high humidity until fully cured and dry.

C. Do not permit traffic near unprotected finished surfaces.

D. Clean exposed surfaces using materials and methods recommended by the manufacturer of the material or product being cleaned. Remove and replace work that cannot be cleaned to the satisfaction of the Project Designer/Owner.

END OF SECTION   *Rev. July 2015*

Disclaimer: This guide specification is intended for use by a qualified designer. The guide specification is not intended to be used verbatim as an actual specification without appropriate modifications for the specific use intended. The guide specification must be integrated into and coordinated with the procedures of each design firm, and the requirements of a specific project. For additional assistance, contact Parex USA's Architectural Sales (866-516-0061) or Technical Support (800-226-2424).