



PermaTone, Inc.
Manufacturer's Long Form Specifications
Interior Finish Coatings
PF-405

SECTION 09940 Decorative Finishes
SECTION 09770 Special Wall Surfaces
SECTION 09950 Wall Coverings

PART I – GENERAL

1.01 SUMMARY

This document provides requirements for the proper specification, design, use and installations of PermaTone specialty interior finishes.

- A. Provide all labor, materials, equipment and tools to install the PermaTone Interior Finish Coatings.
- B. Related sections
 - 1. Gypsum Drywall - Section - 09250
 - 2. Gypsum Plaster - Section - 09210
 - 3. Portland Cement Plaster - 09220
 - 4. Gypsum Board Assemblies - 09260
 - 5. Other sections related to the substrate over which the coatings are to be applied.
- C. DESCRIPTION OF THE SYSTEM:
A field application of wall surface primers, undercoats, textured coatings, waxes and sealers manufactured by PermaTone, Inc., Houston, Texas.
- D. DESCRIPTION:
Work includes masking, protection of surfaces not intended to be coated, priming, finishing, clean-up and touch-up of areas as designated on the drawings and contract documents to be coated.

1.02 REFERENCES

PermaTone, Inc.: Manufacturer of the PermaTone Interior Finishes.

- A. ASTM E-84 Surface Burning Characteristics of Building Materials.
- B. MIL-M-146 Military Spec Burning Characteristics & Composition of Atmosphere.
- C. ASTM G-23 Accelerated Weathering
- D. ASTM B-117 Salt Fog Resistance
- E. ASTM D-1735 Moisture Resistance
- F. ASTM TT-C-555B Wind Driven Rain
- G. MILSPEC 910B 3508 Mildew Resistance
- H. ASTM E-96 Water Vapor Transmission
- I. ASTM D-968 Abrasion Resistance
- J. ASTM Modified E-96 Permeance Test

1.03 DEFINITIONS

- A. PermaTone Interior Finish System:
A field application of primers, undercoats, textured coatings, waxes and sealers manufactured by PermaTone Inc., Houston, Texas.
- B. PermaTone WallTexture Designs:TM A collection of diverse acrylic texture finishes and support products manufactured by PermaTone, Inc.
 - 1. Texture Coatings
 - a. QuartzSilco: Fine finish for diverse textures
 - b. QuartzMural: Rustic high-relief textured finish
 - c. Palladio: High gloss smooth Venetian plaster finish
 - d. Tevere: Matte smooth Venetian plaster finish
 - e. Agostino: Medium gloss smooth honed Venetian plaster finish
 - f. Marmolino: Matte rustic Venetian plaster finish
 - g. Sabbia: Limestone appearance Venetian plaster finish
 - h. Cerami: Smooth polished stone appearance finish
 - i. Chiffon: Smooth old-world matte stucco finish
 - j. Craquelatto: Antiqued broad crack finish
 - k. Castello: Translucent glaze
 - l. Reflexi: Pearlescent shimmer glaze
 - m. Corever Texture: Rough cut granite finish
 - n. Corever Micro: Smooth cut stone finish
 - 2. Support Products
 - a. Sottofondo: Clear acrylic primer and consolidator
 - b. Pintufondo: Vapor permeable mildew resistant acrylic primer
 - c. CorevMix: Permeable finely ground base leveling material
 - d. CorevBase: Acrylic gap filler and leveler
 - e. Vitroseal: Permeable mildew-resistant surface sealer
 - f. PermaWax: Acrylic protective finishing wax for Venetian plasters
- C. SUBSTRATE: The surface to which the PermaTone Interior Finish System is adhered.

1.04 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS:

1. Shall be PermaTone, Inc. All materials shall be manufactured or sold by PermaTone, Inc., and shall be purchased from PermaTone or its authorized Distributor in order to ensure compatibility of system components.

B. CONTRACTOR QUALIFICATIONS:

1. Shall be knowledgeable and trained in the proper installation of specialty interior finishes.
2. Upon request PermaTone will provide a list of applicators experienced in applying PermaTone Interior Finish Coatings.

C. GENERAL DESIGN AND DETAILS

1. GENERAL DESIGN:

- a. Internal or external radii of walls or columns to be coated shall be greater than 1 foot for trowel applied textures.
- b. Working clearance of at least 3 feet from the surface to be coated is required.
- c. Coatings shall not be used in any areas defined as floor.

2. SUBSTRATES

- a. Substrate systems must be designed to withstand all applicable loads and in compliance with all applicable codes.
- b. The following are approved substrates:
 - i. Properly prepared new and existing drywall
 - ii. Properly prepared, smooth concrete or stucco
 - iii. Properly prepared CMU block, tile or masonry
 - iv. Other substrates as approved by PermaTone

D. MOCK-UP

1. The contractor shall, before the project commences, provide the Owner/Design Professional with a mock-up for approval.
2. The mock-up shall at least 4 feet square so as to accurately represent the specified application, color and texture.
3. The approved mock-up represents final acceptance of the finish, texture and color to be used on the project. The mock-up shall be maintained at the jobsite and always available for review.

1.05 SUBMITTALS

A. SAMPLES:

1. Two 8" x 10" samples of the PermaTone Interior Finish Coatings consisting of the proper finish coating, texture and color shall be prepared using the same materials, tools and techniques to be used on the job.

B. REPORTS AND QUALIFICATIONS:

1. Upon request from the Design Professional, selected test results or copies of test reports shall be submitted.
2. A qualified applicator shall submit project references to the general contractor prior to the application of the product.

C. PRODUCT DATA:

1. The contractor shall submit to the Owner, Design Professional and General Contractor the Manufacturer's specifications and individual product datasheets describing the products selected for use on the project.

1.06 DELIVERY, STORAGE AND HANDLING

- A. PermaTone Interior Finish Coatings should be stored in a cool, dry place at a temperature of 40°F or higher. Materials should not be stacked more than three containers high.
- B. Products shall be delivered to jobsite in unopened containers with labels intact.
- C. Materials must be remixed before use and resealed after use. Refer to the individual product datasheets for specific mixing instructions.

1.07 JOB CONDITIONS

- A. ENVIRONMENTAL CONDITIONS:
 - 1. Materials shall not be applied to a substrate with a temperature less than 40°F. Substrate must be completely dry.
 - 2. The ambient air temperature shall be 40°F or higher at a time of installation and remain so for twenty-four (24) hours thereafter.
 - 3. Relative humidity shall not exceed 50% @ 77°F to ensure proper and timely curing.
 - 4. Protect installed finishes during the curing period of 48 hours after installation. Low temperature and higher humidity during installation will lengthen the curing time.
- B. GENERAL CONTRACTOR OBLIGATIONS:

General Contractor shall provide access to electric power and clean water where PermaTone Interior Finish Coatings are to be installed.
- C. PROTECTION:

Adjacent areas and materials shall be protected to preclude damage during material application. Immediately clean with water any spillage on surfaces not intended to receive the coatings.
- D. COORDINATION:

Proper scheduling of the installation will be coordinated with the General Contractor and the job will be staffed to maintain the schedule established by the General Contractor.

1.08 LIMITED WARRANTY

PermaTone, Inc. offers a ten (10) year limited warranty for finish coating materials.

PART II – PRODUCTS

2.01 GENERAL

All materials shall be obtained directly from PermaTone, Inc. or through its authorized distributors. Use of other products to modify or replace any of the PermaTone Interior Finish Coatings system components is strictly prohibited.

2.02 AS MANUFACTURED BY PERMATONE

- A. PRIMERS AND SEALERS
 - 1. Pintufondo: An acrylic, high solids substrate primer with integral color. Designed with silica fillers to enhance adhesion properties. Used as a pigmented primer and as an adhesion intermediary for finish coatings.
 - 2. Sottofondo: Clear acrylic primer and consolidator with high algacide and fungicide properties. Used to promote adhesion and prepare deteriorated substrates to be coated with PermaTone finish.
 - 3. Vittroseal: An acrylic, clear, semi-gloss, permeable and mildew resistant wall surface sealer. Used with

QuartzSilco and other finishes to improve water and stain resistance in kitchens, bathrooms and high traffic environments.

4. PermaWax: An acrylic protective finishing wax for Venetian plasters.

B. BASE OR UNDERCOAT

1. CorevMix: A sandable, acrylic undercoat formulated with extra fine particle fillers to produce a smooth, tight, low absorption surface matrix. Used on minor repairs and holes of less than 1/8" in depth and as a surface leveler to provide a uniform base for PermaTone finishes. Its surface hardness and low absorption properties make it the required undercoat for Palladio.
2. CorevBase: An acrylic, flexible basecoat used as a floating compound to render surfaces such as CMU, masonry and tile adequately smooth for application of PermaTone finishes.

C. PermaTone WallTexture Designs:™ Factory mixed, integral color, textured finish coatings.

1. QuartzSilco, QuartzMural, Palladio, Tevere, Agostino, Marmolino, Sabbia, Cerami, Craquelatto, Castello, Riflexi, Corever Texture, and Corever Micro. Each one of the PermaTone finishes has unique properties, limitations, and installation and handling requirements. Please refer to individual product datasheets for selection of a finish.

2.03 SYSTEM PERFORMANCE CHARACTERISTICS

A. FIRE TEST PERFORMANCE

1. ASTM E-84 Surface Burning Characteristics: Flame Spread less than 5.
2. Military Spec MIL-M-146 (Burning Characteristics & Composition of Atmosphere):

a. General Results

Weight Loss	2.5gr
Bellstein Test	Negative
Smoke Development	Light
Flame Spread	5
Ash	Light

b. Composition of Atmosphere in (PPM) should meet:

Chlorine	0
Hydrogen Chloride	0
Phosgene	0
Ammonia	0
Cyanides as HGH	0
Sulphur Oxide	0
Carbon Monoxide	120

B. GENERAL PHYSICAL PROPERTIES:

1. ASTM G-23 Accelerated Weathering (2000 hours): The PermaTone Interior Finish Coatings show no deterioration or color change.
2. ASTM B- 117 Salt Fog Resistance: The PermaTone Interior Finish Coatings show no change after 500 hours at 5% salt fog.
3. ASTM D-1735 Moisture Resistance: The PermaTone Interior Finish Coatings show no change after 500 hours of 100% water fog.
4. Fed. Spec. Tt-C-555B Wind Driven Rain: The PermaTone Interior Finish Coatings show no more than a 0.35% weight gain after 24 hours exposure.
5. Military Standard 810B Method 3508 Mildew Resistance: The PermaTone Interior Finish Coatings show no fungus growth.
6. ASTM E-96 Water Vapor transmission: The PermaTone Interior Finish Coatings will have a minimum permeance at 24 perms.
7. ASTM D-968 Abrasion Resistance: The PermaTone Interior Finish Coatings show no effect after 1000 liters of sand.

PART III – EXECUTION

3.01 EXAMINATION

Prior to installation of the PermaTone Interior Finish Coatings, the substrate shall be examined by a qualified applicator to determine the following:

1. The substrate is appropriate for use with PermaTone Interior Finish Coatings.
2. The substrate is as specified in the construction plans and is sound and otherwise ready for installation.
3. The surface of the substrate is free of foreign materials such as paint, wax, glazing, moisture, dust, dirt, or oil.
4. The dimensional correctness of the substrate is as specified in this document.
5. Surfaces have been prepared in accordance with the recommendations outlined in these specifications and the individual product datasheet for the selected finish.
6. Any discrepancies will be immediately brought to the attention of the General Contractor and Design Professional and work shall not proceed until satisfactory conditions have been rectified.

3.02 WALL PREPARATION

A. NEW GYPSUM TAPED AND FLOATED DRYWALL :

1. Repair any minor damage, holes and scratches on drywall with CorevMix or joint compound. Allow the leveling compound to dry for 24 hours before priming.
2. Surfaces shall be paint ready (Level 4).
3. For finishes requiring primer, apply Pintufondo in the specified color over the entire surface. Consult the Pintufondo product datasheet for specific instructions.
4. For finishes requiring a Level 5 wall surface, apply CorevMix over the entire surface. Consult the CorevMix product datasheet for specific instructions.

B. LATEX PAINTED DRYWALL:

1. Scrape off any loose paint.
2. Repair any minor damage, holes and scratches on drywall with CorevMix or joint compound. Allow the leveling compound to dry for 24 hours before priming.
3. Surfaces shall be paint ready (Level 4).
4. For finishes requiring primer, apply Pintufondo in the specified color over the entire surface. Consult the Pintufondo product datasheet for specific instructions.
5. For finishes requiring a Level 5 wall surface, apply CorevMix over the entire surface. Consult the CorevMix product datasheet for specific instructions.

C. GYPSUM DRYWALL WITH WALLCOVERING:

1. Strip off all existing wall paper or vinyl wall covering, along with any excess adhesive, taking care not to damage drywall core paper.
2. Mildew covered walls must be allowed to dry thoroughly by providing adequate ventilation and time.
3. Walls with significant mildew residue shall be cleaned with a mild solution of chlorine bleach and water. Replace any drywall that is mildew damaged beyond repair. Roll a coat of Sottofondo over the entire surface. In areas where the drywall paper facing is not well adhered to the gypsum core, bubbles will form. These bubbles shall be cut away and Sottofondo shall be reapplied to these areas.
4. Apply a thin coat of CorevMix or joint compound over exposed drywall core and surface irregularities. Coat must be positively attached to substrate. Allow 24 hours drying time between coats.
5. Apply Pintufondo or CorevMix, where indicated in the individual product datasheets, over the entire surface.
6. Verify that all areas are sound after installation of Pintufondo or CorevMix.

D. SMOOTH CONCRETE OR STUCCO:

1. On stucco walls, verify that surface is sound and free of efflorescence.
2. Scrape off any loose paint if surface is painted.
3. Spray or roller apply Sottofondo over the entire surface

4. Surfaces shall be paint ready (Level 4).
5. For finishes requiring primer, apply Pintufondo in the specified color over the entire surface. Consult the Pintufondo product datasheet for specific instructions.
6. For finishes requiring a Level 5 wall surface, apply CorevMix over the entire surface. Consult the CorevMix product datasheet for specific instructions.

E. CONCRETE BLOCK (CMU):

1. Surface plane of block must be smooth and even with flush joints.
2. Spray or roller apply Sottofondo over the entire surface
3. Apply CorevBase over the entire surface in a thickness not to exceed 30 mils and allow product to dry 6 to 8 hours. Consult the CorevBase product datasheet for specific instructions.
4. Repeat coats as necessary to achieve an acceptable surface for the application of the finish coat
5. Allow the last coat of CorevBase to dry for 24 hours before application of the finish coat.
6. For finishes requiring primer, apply Pintufondo in the specified color over the entire surface. Consult the Pintufondo product datasheet for specific instructions.
7. For finishes requiring a Level 5 wall surface, apply CorevMix over the entire surface. Consult the CorevMix product datasheet for specific instructions.

F. FERROUS METALS:

1. Ferrous metal surfaces, such as drywall corner bead, must be properly treated with rust inhibitors before the application of PermaTone WallTexture Designs.

3.03 PRODUCT MIXING

- A. Pintufondo: Stir well with paint mixer prior to using.
- B. CorevMix: Mix with a slow speed drill equipped with mixing paddle.
- C. PermaTone Finish Coatings:
1. Small amounts of water (12 oz. or less per 5 gallon pail) may be added to the coatings to adjust workability. The same amount of water should be added to each bucket to ensure color consistency.
 2. PermaTone coatings should be mixed with a slow speed drill and used immediately after mixing. They should be kept in a closed container when not in use. Container shelf life will vary depending on storage conditions.
 3. Nothing other than water shall be added to the finish coating.
 4. Consult the individual product datasheets for specific instructions and limitations.

3.04 INSTALLATION

TEXTURE APPLICATION: Refer to individual product datasheets for specific instructions. Application technique will be determined by the final texture selected.

3.05 LIMITATIONS

1. Intended for use on interior wall and ceiling surfaces only.
2. Skilled application required.
3. Not compatible with solvents.
4. Patching limitations standard to applied coatings.
5. Use in well ventilated areas.
6. Protect face and eyes.
7. Refer to individual product datasheets for specific product limitations and warnings.
8. Testing data refers specifically to QuartzSilco and QuartzMural.
9. All PermaTone Walltexture Designs finishes share fire, flexibility and permeability performance characteristics.



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