



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 and textured coatings manufactured by PERMATONE, INC., Houston, TX.
- 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 E96 Permeance Test

1.03 DEFINITIONS

- A. PERMATONE INTERIOR FINISH SYSTEM:
A field application of primers, undercoats and textured coatings manufactured by PERMATONE INC., Houston, TX.
- B. PERMATONE WALLTEXTURE DESIGNS: A collection of diverse texture finishes manufactured by PERMATONE, INC.
 - 1. QUARTZSILCO: Acrylic Finish for Diverse Textures
 - 2. QUARTZMURAL: Textured Acrylic Finish
 - 3. PALLADIO: High Gloss Smooth Venetian Stucco Finish
 - 4. MARMOLINO: Antiqued Matte Venetian Stucco Finish
 - 5. CRAQUELATTO: Antiqued Broad Crack Finish
 - 6. CASTELLO: Translucent Glaze
 - 7. COREVER TEXTURE: Rough Cut Granite Finish
 - 8. COREVER MICRO: Smooth Cut Stone Finish
 - 9. AQUAREL TEXTURE: High Definition Multicolor Paint
 - 10. AQUAREL MICRO: Subtle Pattern Multicolor Paint
 - 11. PINTUFONDO: Acrylic Surface Sealer and Surface Conditioner.
 - 12. COREVMIX: One Component Undercoat
 - 13. SOTTOFONDO: Clear Acrylic Primer and Consolidator
- 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 insure compatibility of system components.
- B. CONTRACTOR QUALIFICATIONS:
 - 1. Shall be trained in the proper installation of, and knowledgeable in the application 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 to 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
 - iv. PERMATONE, INC may approve other substrates.

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 be a size (4'x4') or larger so as to accurately represent the application, color and texture specified.
- 3. The mock up represents final acceptance of the finish, texture and color to be used on the project. The mock up shall be available and maintained at the jobsite.

1.05 SUBMITALS

A. SAMPLES:

- 1. Two 1' x 1' samples of the PERMATONE Interior Finish Coatings consisting of the proper finish coating, texture and color shall be prepared using the same tool and technique required by 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 data sheets 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 immediately before use and resealed after use. Refer to the individual product data sheets 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 insure proper and timely curing.

4. Protect installed finishes from impact for a period of 48 hours after installation. Low temperature and higher humidity during installation will lengthen the necessary 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.
- E. 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.
- F. 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 materials.

PART II – PRODUCTS

2.01 GENERAL

All materials shall be obtained directly from PERMATONE, INC., or through its authorized distributors. Substitutions or additions of other products shall not be used to modify or replace any of the PERMATONE Interior Finish Coatings system components.

2.02 AS MANUFACTURED BY PERMATONE

- A. PRIMERS
1. PINTUFONDO: An acrylic, high solids substrate primer, sealer and adhesion promoter with integral color. Designed with silica fillers to enhance adhesion properties. Used to seal the substrate and act as an adhesion intermediary for the finish coating.
 2. SOTTOFONDO: Clear acrylic primer and consolidator with high algaecide and fungicide properties. Used to promote adhesion and prepare deteriorated substrates to be coated with PERMATONE finish.
- B. BASE OR UNDERCOAT
1. COREVMIX: A sandable, acrylic, factory mixed, smooth 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.
- C. PERMATONE WALLTEXTURE DESIGNS: Factory mixed, integral color, textured finish coatings.

1. QUARTZSILCO, QUARTZMURAL, PALLADIO, MARMOLINO, CRAQUELATTO, CASTELLO, COREVER, AQUAREL. Each one of the PERMATONE finishes has unique properties, limitations, installation and handling requirements. Please refer to individual product data sheets once a finish has been selected.

2.04 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 (2000hrs): 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 will show no fungus growth.
6. ASTM E-96 Water Vapor transmission: The PERMATONE Interior Finish Coatings will have a minimum Permeance at 24.4 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 PERMATONE-approved applicator or representative 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 data sheet 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. For finishes requiring primer, apply PINTUFONDO in the specified color over the entire surface.
- 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. For finishes requiring primer, apply PINTUFONDO in the specified color over the entire surface.
- 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.
 3. Mildew residue must be removed from the, or it may be sealed off by rolling one coat of SOTTOFONDO over the entire surface. Mildew can be removed by slightly sanding the drywall or by washing it with a mild solution of chlorine bleach and water.
 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 in the specified color over the entire surface.
 6. Verify that all areas are sound after installing PINTUFONDO.
- 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.
 4. For finishes requiring primer, apply PINTUFONDO in the specified color over the entire surface.
- E. CONCRETE BLOCK (CMU):
 1. Surface plane of block must be smooth and even with flush joints.
 2. Apply COREVMIX over the entire surface in a thickness not to exceed 30 mils and allow product to dry 4 to 6 hours.

3. Repeat coats as necessary to achieve an acceptable surface for the application of the finish coat
 4. Allow the last coat of COREVMIX to dry for 24 hours before application of the finish coat.
- 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.

3.02 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 Coatings:
 1. Small amounts of water (8oz. 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. No additives, other than water, should be added to the coating.
 4. Consult the individual product data sheets for specific instructions and limitations.

3.04 INSTALLATION

TEXTURE APPLICATION: GENERAL (Refer to individual product data sheets for specific instructions). Application technique will be determined by the final texture selected.

3.05 LIMITATIONS

1. **Refer to individual product data sheets for specific product limitations and warnings.** Testing data refers specifically to QuartzSilco and QuartzMural. All finishes in PERMATONE WALLTEXTURE DESIGNS share fire, flexibility and permeability performance characteristics.
2. Not intended for use on floor applications.
3. Intended for use on interior wall and ceiling applications only.