

09216 TROWEL APPLIED CONCRETE FINISH

PART 1 GENERAL

1.1 SUMMARY

A. This section specifies polymerized trowel applied concrete finish, including materials, preparation and application procedures.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM)

1. ASTM C190 Tensile Strength
2. ASTM C882 Adhesion
3. ASTM C109 Compressive Strength
4. ASTM E96 Water Vapor Permeability

1.3 SUBMITTALS

A. Samples:

1. Submit samples not less than 6"x6" indicating proposed materials and methods. Samples approved by Owner shall be for color and texture only, and shall become control samples.

1.4 QUALITY ASSURANCE

A. Provide experienced, well-trained workers competent to complete the work as specified.

B. All work shall comply with governing building and safety codes.

C. Trowel applied concrete finish shall be furnished and installed by Get Real Surfaces, Poughkeepsie NY (845-452-3988).

1.5 MATERIALS HANDLING

A. Provide all materials required to complete the work as shown on the Drawings and specified herein.

B. Deliver, store, and transport materials to avoid damage to the product or to any other work and return any products or materials delivered in an unsatisfactory condition.

C. Materials and products delivered will be certified by the manufacturer to be as specified.

D. Store materials in a safe, secure location, protected from moisture until installation.

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1.6 PROJECT CONDITIONS

- A. Establish and maintain environmental conditions for application of concrete finish to comply with ASTM C843.
- B. Maintain not less than 50 deg F (10 deg C) nor more than 80 deg F (27 deg C) for one week prior to application and continuously thereafter until finish has dried.
- C. Excessive air movement shall be minimized during installation to prevent rapid or uneven drying.

PART 2 PRODUCTS

2.1 TROWEL APPLIED CONCRETE FINISH

- A. Trowel applied concrete finish shall be a trowel applied proprietary blend of cement, sand and binders with a density of +/- 1.5 lbs/sf. Material shall be furnished and installed by Get Real Surfaces, Inc. (845-452-3988)

2.2 TOOLS AND EQUIPMENT

- A. Get Real Surfaces shall furnish all materials, tools, equipment, facilities and services as required for performing the required finishing work.

PART 3 EXECUTION

3.1 PREPARATION

- A. Get Real Surfaces shall inspect site conditions prior to scheduling work and shall not commence until conditions are in compliance with the requirements of these specifications.

1. VERTICAL SURFACES

- A. Gypsum wall board (preferred substrate for dry applications)
 - 1. Provide substrates true plane within 1/8" of 10 ft in any direction, within 1/16" in critical lighting areas.
 - 2. Prepare surfaces to ensure that holes and cracks are patched and that joints, and other imperfections are smooth.
 - 3. Corner beading to be installed straight and plumb (metal or plastic).
 - 4. All seams to be fiberglass mesh tape reinforced and skimmed to "paint ready" condition using joint compound.
 - 5. Panels are well secured and do not flex or move.
- B. Concrete Walls (monolithic surfaces)
 - 1. Clean monolithic concrete surfaces to remove dust, loose particles and other foreign matter (including grease, oil and adhesives) that might impede bonding.
 - 2. Remove ridges and protrusions greater than 1/16".
 - 3. Fill all depressions greater than 1/8" with water resistant joint compound.
 - 4. Working cracks exceeding 1/8" to be routed, epoxied and meshed. Non-working cracks less than 1/8" to be filled flush with water resistant joint compound, or similar material.

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- C. Cement Board (used only in wet areas or hard-wearing areas)
 - 1. All fasteners shall be countersunk; corners shall be installed square and tightly (with no gaps greater than 1/8").
 - 2. Plastic corner beading shall be installed in wet areas straight and plum.
 - 3. Panels are well secured and do not flex or move.

2. HORIZONTAL SURFACES

- A. Concrete Slabs (preferred substrate for flooring)
 - 1. Clean monolithic concrete surfaces to remove dust, loose particles and other foreign matter (including grease, oil and adhesives) that might impede bonding.
 - 2. Remove ridges and protrusions (such as seams, joints, lippage, compound, etc...) greater than 1/16".
 - 3. Fill all depressions (such as small holes, pits, gouges, etc..) greater than 1/8" with water resistant joint compound.
 - 4. Working cracks exceeding 1/8" to be routed, epoxied and meshed. Non-working cracks less than 1/8" to be filled flush with water resistant joint compound, or similar material.
 - 5. Slabs shall be swept clean and damp mopped prior to starting concrete finish application.
 - 6. Any existing variations in the flatness of the floor (such as undulations, peaks and valleys, excessive trowel markings, etc..) should be addressed prior to Trowel Applied Concrete Finish application.
- B. Plywood Substrates
 - 1. Use A/C grade plywood to avoid wood grain and knots.
 - 2. Plywood to be fastened with construction adhesive and screws to minimize/eliminate movement. Screws must be countersunk.
 - 3. Fill depressions, gaps, and voids greater than 1/8" with water resistant joint compound.
 - 4. Install flexible, fiberglass reinforced, rubber membrane to all surfaces receiving concrete finish.

3.2 INSTALLATION

- A. Trowel applied concrete finish shall be trowel applied to surfaces as specified approximately +/- 1/8" thick.
- B. Material shall be applied in even coats to achieve the specified finish.

3.3 CLEANING

- A. Provide final protection and maintain conditions, in a manner suitable to the Installer, which ensures concrete finish work being without damage or deterioration at time of substantial completion.

END OF SECTION

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