

# ARCHITECTURAL SPECIFICATIONS

## DECO POUR TERRAZZO & DECORATIVE OVERLAYMENT SECTION 09400 - SPECIAL CONCRETE FLOOR FINISHES

This specification is provided by Deco Pour as a service and is intended to be used as a guideline for preparing the appropriate project specific specification sections. Every heading may not be needed. Delete headings not used and re-number remaining used headings to be numerically correct.

### PART 1 GENERAL

#### 1.01 SUMMARY

- A. This section includes the following.
  - 1. Application of the Deco Pour product.
- B. Related Work:
  - 1. Section 03300 Cast-In-Place Concrete/New Construction Vapor Emission
  - 2. Section 09639 Concrete Hardening/Sealing

#### 1.02 REFERENCES

- A. American Society for Testing and Materials:
  - 1. ASTM-C109/mod, Compressive Strength
  - 2. ASTM C779/procedure A, Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces.
  - 3. ASTM C348, Flexural Strength
  - 4. ASTM G23, Waterproof Test
  - 5. ASTM C-67 Permeability Test
- B. American Concrete Institute
  - 1. ACI 302, 1R-89, Guide of Concrete Floor and Slab Construction
  - 2. ACI 400, Bond Strength

#### 1.03 SUBMITTALS

- A. Comply with pertinent provisions of Section 01600-Product Requirements.
  - 1. Provide submittal information within 35 calendar days after the contractor has received the owner's notice to proceed.

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### 1.03 SUBMITTALS CON'T:

- B. Product data:
  - 1. Submit special concrete finishes manufacturer's specifications and test data.
  - 2. Submit special concrete finishes describing product to be provided, giving manufacturer's name for the specified material proposed to be provide under this section.
  - 3. Submit special concrete finishes manufacturer's recommended installation procedures; which when approved by the Architect, will become the basis for accepting or rejecting actual installation procedures used on the work.
  - 4. Submit Deco Pour finishes technical data sheet giving descriptive data, curing time, and application requirements.
  - 5. Submit special concrete finishes manufacturer's Material Safety Data Sheet (MSDS) and other safety requirements.
  - 6. Follow all special concrete finishes published manufacturer's installation instructions.
  
- C. Test Reports:
  - 1. Provide certified test reports, prepared by an independent testing laboratory, confirming compliance with specified performance criteria.

### 1.04 QUALITY ASSURANCE

- A. Installer Qualifications:
  - 1. Use an experienced installer and adequate number of skilled workmen who are thoroughly trained and experienced in the necessary craft.
  - 2. The special concrete finish manufacturer shall certify applicator.
  - 3. Applicator shall be familiar with the specified requirements and the methods needed for proper performance of work of the section.
  
- B. Manufacturer's Certification:
  - 1. Provide letter of certification from concrete finish manufacturer stating that installer is certified applicator of special concrete finishes, and is familiar with proper procedures and installation requirements required by the manufacturer.
  
- C. Mock-ups:
  - 1. Apply mock-ups of each type finish, to demonstrate typical joints, surface finish, color variation (if any), and standard of workmanship.
    - a. Build mock-ups in the location indicated or if not indicated, as directed by the Architect or Owner Representative.
    - b. Notify Architect or Owner Representative seven days in advance of dates and times when mock-ups will be constructed.
    - c. Obtain from the Architect or Owner Representative approval of mock-ups before starting construction.

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### C. 1. Mock-ups con't:

- d. If the Architect or Owner Representative determines that mock-ups do not meet requirements, demolish and remove them from the site and cast others until mock-ups are approved.
- e. Maintain mock-ups during construction in an undisturbed condition as a standard for judging the completed work.
- f. Approved mock-ups may become part of the completed work if undisturbed at time of substantial completion.

### D. Protection

- 1. No satisfactory chemical or cleaning procedure is available to remove petroleum stains from the concrete surface. Prevention is therefore essential.
  - a. All hydraulic powered equipment must be diapered to avoid staining of the concrete.
  - b. No trade will park vehicles on the inside slab. If necessary to complete their scope of work, drop cloths will be placed under vehicles at all times.
  - c. No pipe cutting machine will be used on the concrete floor slab.
  - d. Steel will not be placed on slab to avoid rust staining.
  - e. Acids and acidic detergents will not come into contact with slab.
  - f. All trades informed that the slab must be protected at all times.

### F. Pre-Installation Conference:

- 1. Conduct conference at project site to comply with requirements in Division 1 Section "Project Management and Coordination."

## 1.05 DELIVERY, STORAGE AND HANDLING

- A. Deliver material in original containers, with seal's unbroken, bearing manufacturer labels indicating brand name and direction for storage.
- B. Dispense special concrete finish material from factory numbered and sealed containers. Maintain record of container numbers.

## 1.06 PROJECT CONDITIONS

### A. Environmental limitations:

- 1. Comply with manufacturers written instructions for substrate temperature and moisture content, ambient temperature and humidity, ventilation, and other conditions affecting topping performance.
  - a. Substrate concrete slab must be cured a minimum of 45 days or as directed by the manufacturer before application of Deco Pour can begin.
  - b. Application of Deco Pour shall take place 15 days prior to installation of equipment and substantial completion, thus providing a complete, uninhibited concrete slab for application.

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### 1.06 Project Conditions con't:

- B. Close areas to traffic during floor application and after application, for time period recommended in writing by manufacturer.

## **PART 2 - PRODUCTS**

### 2.01 MATERIAL AND MANUFACTURERS

- A. Deco Pour Decorative Concrete
  - 1. Manufactured by Deco Pour, 13614 SR9 SE, Snohomish, Washington 98296, 1.360.668.2218
    - a. Performance Criteria
      - i. Abrasion Resistance: ASTM C779 Procedure A- (30 minutes .032) (60 minutes .065)
      - ii. Compressive Strength ASTM C109/Mod (24 hours 2300 psi) (7 days 3600 psi) (28days 6800 psi)
      - iii. Flexural Strength ASTM C348 (28 days 1200 psi)
      - iv. Waterproof Test ASTM G23 (no visible change)
      - v. Bond Strength A.C.I. #400 (100% Concrete failure)
      - vi. Permeability Test 7 foot on a 0.491 sq. inch area (Water absorption %: 0.22 cc per hr.

### 2.02 RELATED MATERIALS

- A. Neutralizing Agent
  - 1. Tri-Sodium Phosphate
- B. Water
  - 1. Potable

## **PART 3-EXECUTION**

### 3.01 SURFACE CONDITIONS:

- A. Examine substrate, with installer present, for conditions affecting performance of finish. Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected.
- B. Verify that base slab meets finish and surface profile requiems in Division 3 Section "Cast-In-Place Concrete" and Project Conditions above.
- C. Prior to application, verify that floor surfaces are free of construction latents.

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### 3.02 APPLICATION

- A. Start any of the floor finish applications in presence of manufacturer's technical representative.
  
- B.
  - 1. Concrete must be in place a minimum of 45 days or as directed by the manufacturer before application can begin.
  - 2. Contractor must follow all specifications for ground preparation, reinforcing, design mix and admix specification, etc.
  - 3. Application is to take place at least 10 days prior to racking and other in-store accessory installation, thus providing a complete, uninhibited concrete slab for application.
  - 4. Only a certified applicator shall apply the Deco Pour product. Applicable procedures must be followed as recommended by the product manufacturer and as required to match approved test sample.
  - 5. Achieve waterproofing, hardening, dust-proofing, and abrasion resistance of the surface.
  - 6. Polish to required sheen level.

### 3.03 WORKMANSHIP AND CLEANING:

- A. The premises shall be kept clean and free of debris at all times.
- B. Remove spatter from adjoining surfaces, as necessary.
- C. Remove debris from jobsite

### 3.04 PROTECTION

- A. Protect finished work until fully cured in accordance with manufacturer's recommendations.

**END OF SPECIFICATION**  
**SECTION 09400**