



Specification Document
Product: SpecLevel PCT-AGG

DIVISION 3 - CONCRETE
Section 03 54 00 - Concrete Topping
Section 03 01 30 - Maintenance of Cast-in-Place Concrete

Part 1 - General

1.01 Summary

- A. This specification covers the use of SpecLevel PCT-AGG, a self-leveling, polishable concrete topping pre-extended with special aggregate, suitable for achieving a natural architectural concrete finish.
- B. SpecLevel PCT-AGG is designed for rapid installation and polishing, capable of supporting foot traffic within hours and suitable for a wide range of thickness applications.

1.02 Quality Assurance

- A. Manufacturer qualifications: SpecChem must have an ongoing quality assurance program, independently audited regularly.
- B. Contractor qualifications: Must have successful experience in concrete construction.
- C. Comply with all safety and environmental conditions as recommended by SpecChem and local, state, and federal regulations. Refer to Safety Data Sheets (SDS) for safety and handling practices.

1.03 Delivery, Storage, and Handling

- A. Deliver materials in original, unopened containers with labels intact.
- B. Store materials in a cool, dry area away from direct sunlight.
- C. Follow manufacturer's recommendations for product conditioning.



1.03 Job Conditions

- A. Environmental Conditions: Apply only when the temperature is above 45°F and rising.
- B. Protect adjacent areas to prevent damage during application.

1.04 Submittals

- A. Provide SpecChem Technical Data Sheet (TDS) and Safety Data Sheets (SDS).

1.05 Warranty

- A. SpecChem warrants this product to be free of manufacturing defects and will replace defective products without charge.

Part 2 – Products

2.01 Manufacturer

- A. SpecLevel PCT-AGG as produced by SpecChem.

2.02 Materials

- A. Cement-based self-leveling polishable concrete topping, pre-extended with aggregate.
- B. Color: Light concrete gray, accepts integral color or stains.

2.03 Performance Criteria

- A. Compressive Strength:
 - 1 day - 4000 psi
 - 7 days - 5500 psi
 - 28 days - 7200 psi.
- B. Bond Strength:
 - 7 days - 1450 psi.
- C. Flexural Strength:



- 28 days - 1150 psi.

Part 3 – Execution

3.01 Surface Preparation

- A. Ensure cleanliness: Remove all contaminants including oils, curing compounds, and loose materials.
- B. Concrete substrates should be profiled to a minimum CSP #4, with shot blasting preferred.

3.02 Mixing and Application

- A. Mix with 7.0-7.5 pints of water per 50-pound bag for standard consistency; adjust water for desired flow characteristics.
- B. Pour or pump the mixture and allow self-leveling; no troweling necessary.

3.03 Placement Procedure

- A. Pour over the prepared substrate, spreading with a long-handled spreader or gauge rake.
- B. Can be pumped using an appropriate grout pump; ensure material levels itself during the first 20 minutes at 70°F.

3.04 Finishing/Curing

- A. Accepts foot traffic within 2-4 hours depending on conditions.
- B. Can be diamond polished within 24 hours of application.

3.05 Cleaning

- A. Clean tools and equipment with water before the product hardens.