TECHNICAL DATA SHEET

SPECLEVEL PCT

High-Performance Self-Leveling Polishable Concrete Topping

DESCRIPTION

SpecLevel PCT is a cement-based, self-leveling, polishable concrete topping that, when polished, creates an architectural "salt-and-pepper" finish. SpecLevel PCT produces a dense, hard surface that can be diamond polished in as little as 24 hours. Mix SpecLevel PCT with water and pour or pump it; it seeks its own level to produce a smooth, hard, wearable surface. SpecLevel PCT dries to a light concrete gray and accepts integral color or stains.

BENEFITS

- When properly mixed, produces a self-leveling wear topping with a flow time of 20 minutes at 70 °F (21 °C)
- Self-leveling and pumpable; requires no troweling
- Creates a "salt-and-pepper" finish when polished
- Produces a smooth, tough, wearable surface
- Accepts integral color and concrete stains
- Can be diamond polished in 24 hours
- USDA accepted

APPLICATION

SpecLevel PCT can be applied from a minimum of 3/8" up to 1-1/2" (10–38 mm), and up to 5" (127 mm) with the addition of pea gravel. Floors subjected to high-load rubber-wheeled traffic require a minimum of 1/2" (13 mm). SpecLevel PCT develops a superior bond to the substrate and normally accepts foot traffic within 3–4 hours, depending on heat, humidity and other jobsite conditions.

Preparation: Follow all standard ACI recommendations. Remove all dirt, gas, oil, grease, asphalt, paint, curing compounds and all loose surface material. Concrete substrates should be profiled to a minimum CSP 4; shot blasting is preferred.

Priming: Prime all surfaces with SpecPoxy 1000 at approximately 100 sq ft/gal (2.5 m^2/L), applied with a notched squeegee, broom or roller to ensure complete coverage. Coverage will depend on the condition and texture of the surface. While the epoxy is still wet (maximum 30 minutes), broadcast coarse dry sand (16/40 gradation) to refusal (approximately 1 lb/sq ft / 4.9 kg/m^2). Allow to dry a minimum of 12 hours, then remove any loose sand with a broom and vacuum before applying SpecLevel PCT.

Mixing: Pour 7 pints (3.3 L) of water into a mixing container, then add a 50 lb (22.7 kg) bag of SpecLevel PCT. Mix for a minimum of 3 minutes with a blending paddle on a heavy-duty drill (650 rpm) or a helix mixer until smooth and lump-free. To reduce flow for a thicker consistency, use 6.5 pints (3.1 L) of water per 50 lb (22.7 kg) of powder. Do not overwater or retemper. When mixing larger batches (3–4 bags in a large mixer), mix for a minimum of 4–5 minutes to ensure a homogeneous consistency. For pumping applications, mix for a minimum of 3 minutes in the pump's mixing tank.

Extension: SpecLevel PCT can be extended by adding 15 lb (6.8 kg) of clean 3/8" (10 mm) pea gravel per 50 lb (22.7 kg) of product: mix SpecLevel PCT as described above, adding the aggregate during the last minute of mixing. If a finish coat is required, apply a non-extended layer of SpecLevel PCT after the first extended layer has hardened and been re-primed with SpecPoxy 1000 and sand.

Installation: Pour SpecLevel PCT over the substrate, spreading the material with a long-handled spreader or gauge rake. SpecLevel PCT can be pumped with an appropriately sized grout pump; for more information

on grout pumps and pumping, contact SpecChem. No troweling is necessary: SpecLevel PCT levels itself during the first 20 minutes at 70 °F (21 °C) and accepts foot traffic in 2–4 hours, depending on jobsite conditions. Wearing cleated shoes is recommended when installing SpecLevel PCT.

Application – Wood Floors

SpecLevel PCT can be applied over wood floors; however, the following substrate preparation is essential.

Surface Preparation: Wood subfloors must be solid hardwood flooring a minimum of 3/4" (19 mm) thick. The wood floor must be solid and securely fastened to provide a rigid base with no flexing; renail any areas that show movement. The wood floor must also be completely clean and free of wax, dust, grease and any contaminants that could interfere with adhesion.

Priming: Wood subfloors also require priming with SpecPoxy 1000 and sand; follow all priming instructions above. Once the excess sand has been thoroughly removed, install galvanized expanded metal lath, stapling every 6" (150 mm) and overlapping adjacent pieces by approximately 1" (25 mm). It is the contractor's responsibility to ensure that the subfloor is thoroughly clean, rigid and shows no flexibility before applying SpecLevel PCT.

TECHNICAL DATA INFORMATION

Set Time at 70 °F (ASTM C266)

Initial set ..... 60 min

Final set..... 100 min

Age	Compressive (C109)	Bond (C882 mod.)	Flexural (C348)
1 day	2,500 (17.2)	–	–
7 days	4,000 (27.6)	1,350 (9.3)	–
28 days	5,000 (34.5)	–	1,100 (7.6)

Values in psi (MPa).

Yield per bag..... 0.45 cu ft (12.7 L)

Density..... 135 lb/cu ft (2,162 kg/m^3)

PACKAGING

50 lb (22.7 kg) bag

Coverage: approximately 15 sq ft at 3/8" (1.4 m^2 at 10 mm).

CLEANING

Tools, pumps and equipment may be cleaned with water before SpecLevel PCT hardens.

SHELF LIFE

Shelf life of unopened bags stored in a dry facility is 12 months. Excessive temperature differential and/or high humidity can shorten the shelf life. Store in a cool, dry area away from direct sunlight.

LIMITATIONS

SpecLevel PCT is designed as a wear surface for foot traffic, forklift traffic or other rubber-wheeled traffic. Heavy impact, point loads, steel or hard-plastic wheeled traffic and heavy metal equipment may cause abrasion or gouging of the floor surface. SpecLevel PCT is a non-structural, rigid overlayment susceptible to microcracking when subjected to vibration, substrate flexure or existing joints and cracks. SpecLevel PCT is designed to have a non-uniform appearance; optical variations in the finished floor should be expected.

SpecLevel PCT is not recommended in locations subject to freezing temperatures, freeze-thaw cycles or deicing salts. In adverse temperatures, follow ACI recommendations for hot/cold weather concreting. Protect from wind and extreme high temperatures until the material has reached final set. Use only potable water for mixing.

Do not install SpecLevel PCT when the average daily temperature is below 45 °F (7 °C). In hot weather, work quickly and use cold mixing water, as working time will decrease.

SpecLevel PCT is adhered with SpecPoxy 1000 and sand. Concrete must be structurally sound and free of all contaminants that may inhibit adhesion of the

epoxy, and should have a minimum compressive strength of 3,000 psi (20.7 MPa). All moving cracks and joints must be honored; fill dormant cracks or joints with SpecPoxy 1000 and sand.

A minimum surface and ambient temperature of 45 °F (7 °C) and rising is required at the time of application. For optimum results, condition material to 65–85 °F (18–29 °C).

Caution: Cement will cause irritation. Avoid contact. A dust respirator, safety goggles and rubber gloves are recommended. Avoid prolonged contact with clothing. In case of contact with eyes, immediately flush with water for at least 15 minutes and get prompt medical attention. Do not wear contact lenses when working with this product. DO NOT take internally. Keep out of reach of children.

Avoid hazards by following all precautions found in the Safety Data Sheet (SDS), product labels and technical literature. Please read this information prior to using the product.

Before using SpecChem products, consult the TDS, sell sheets and SDS at www.specchem.com. It is the user's responsibility to review the instructions and warnings for any SpecChem product before use.

WARRANTY

NOTICE – READ CAREFULLY

CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.

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