

CPD® TOPCRETE SL



DESCRIPTION

CPD® Topcrete SL self-leveling portland cement topping and underlayment has fundamentally changed the way rough and uneven substrates are treated. CPD® Topcrete SL offers a timely and cost effective solution to level floors.

WHERE TO USE

This product can be used over: concrete - new or old, precast plank, quarry tile, terrazzo and wood floors. The type of finished floor to be installed must also be taken into consideration.

BENEFITS

- self-leveling
- rapid setting/high strength
- can be used as a finish topping or underlayment
- excellent surface to receive carpets, resilient flooring, wood, tile and epoxy systems
- cement based and resistant to water
- fine aggregate for feather edging

PROPERTIES (23°C (74°F))

Compressive Strength (ASTM C-109 @ 28 Days)	
28 days	42 MPa (6090psi)
(ASTM C-109)	
Initial Set	45 minutes
(ASTM C-191)	
Final Set	120 minutes
(ASTM C-191)	
pH	11.5
Mixing Ratio	4.5L (1.20 U.S. gal) per 22.7kg (50 lb) bag
Minimum Thickness	0-32mm (0 to 1¼")
Work Time	30 minutes
Mix Time	.3 minutes mechanical mix
Application Rate	.. hand: up to 93 m ² /hr (1000 ft ² /hr) pump: up to 557 m ² /hr (6000 ft ² /hr)
Curing Rate	6 hours- light traffic 12 hours-normal traffic 24 hours - can be covered. (Some floor coverings require longer curing.)

Main Binder	Portland cement
Additives	Special polymer blend
Fillers	Special blend of sands

The above information is representative of actual production runs. Independent test results may vary from the above by approximately ± 10%.

APPLICATION

Surface must be clean and sound, free of dirt, grease, oil, paint, wax, curing compounds, tile and carpet adhesive and any other foreign matter. Concrete floors must be free of laitance or loose material. Seal any holes in the floor. Information on the appropriate cleaning method is available upon request. After cleaning, the floor should be dust free and dry. It can now be primed.

Priming

Prime with CPD® P-6842 primer. CPD® P-6842 controls hydration, acts as a bonding agent and prevents air from forming voids in the liquid CPD® Topcrete SL. CPD® P-6842 is packaged as a liquid concentrate. Dilute with water at a ratio of 2 parts water to 1 part CPD® P-6842. Very porous surfaces may require additional coats. Mix for approximately 1 minute. Pour onto the area to be primed and spread with a broom. CPD® P-6842 must be allowed to become tack free (dry) before applying CPD® Topcrete SL. CPD® P-6842 has an open time of up to 24 hours @25°C (77°F). Keep traffic off primed floor.

Hand Mixing/Hand Pour

Tools: Plastic barrel, spreader, smoother and paddle mixer. Also needed: 13mm (½") heavy duty drill, water source and measuring container.

Crew: Typical application requires 2-3 people.

Mix each bag of CPD® Topcrete SL with 4.5L (1.20 U.S. gal.) of clean cool potable water. **DO NOT OVER WATER. DO NOT USE SOFTENED WATER.** Mix two bags at a time. Start by placing water into barrel. Add CPD® Topcrete SL at a steady rate while mixing with paddle mixer and drill. Mix for 3 minutes minimum to achieve a lump-free mix.

Pour CPD® Topcrete SL from mixing barrel onto area to be leveled. Spread out using spreader tool (set legs of

tool to desired thickness). Repeat mixing and pouring until installation is complete. Use smoother for touch ups.

Hint: To avoid low spots between pours, pour into leading edge of previous pour and spread. Application should be continuous until pour is completed.

Pump Application

For specific pump methods and installation, contact CPD® Construction Products for recommendations and guidance. Generally CPD® Topcrete SL is pumped through a hose to application site. The applicator lays down a succession of 75mm to 150mm (3"-6") ribbons of material pumping into the edge of the preceding ribbon. Depending on the pump used, 929m²-4645m² (10,000-50,000ft²) at 6.4mm (1/4") can be placed per day.

Aggregate

When areas over 32mm (1 1/4") deep are to be leveled an aggregate must be added to control shrinkage. Use clean, dry, washed 6.4-9.5 mm (1/4"-3/8") pea gravel or dry clean #24 silica sand only. Add a **maximum** of 11.4 kg (25 lbs) to a 22.7 kg (50 lbs) bag of CPD® Topcrete SL. Add aggregate after CPD Topcrete SL has been mixed with water. For extending where CPD® Topcrete SL is being pumped add 11.4Kg. (25lbs.) of dry clean #24 Silica Sand per mixed bag.

Note: Adding aggregate reduces flow and leaves a rougher surface. Top with a thin layer of unmodified CPD® Topcrete SL if a smoother surface is desired. If topped, the aggregate layer must be primed to assure proper bonding with finished layer.

LIMITATIONS

- during placement and for a short time afterwards, avoid exposure to direct sunlight and draft
- do not place when air or surface temperature is below 7°C (45°F)
- do not use for exterior applications

COVERAGE/YIELD

a) UNEXTENDED

0.013m³ (0.46ft³) per mixed bag
Covers 2.0m² (22ft²) at 6.35mm (1/4")

b) EXTENDED (50% by weight with clean dry #24 Silica sand)

0.018m³ (0.64ft³) per extended bag
Covers .71m² (7.6ft²) at 25mm (1")

PACKAGING

22.7 kg (50 lb) multi-wall bag.

STORAGE

Dry heated warehouse storage is recommended.

SHELF LIFE

One year from date of manufacture when stored in original unopened container, and under normal warehouse conditions.

SAFETY PRECAUTION

Consult Material Safety Data Sheet (M.S.D.S.) for specific instructions. MSDS # 203

WARRANTY

The recommendations made and the information herein is based on our own and independent laboratory experience, and is believed to be accurate under controlled conditions. However, no warranty or guarantee of accuracy is made because we cannot cover every possible application of product nor anticipate every variation encountered in weather conditions, job-conditions, methods used and types of surfaces on which the product is applied. The users shall make their own tests to determine the suitability of such products for any particular purpose.

CPD® makes no warranties with respect to this product, expressed or implied, without limitation, the implied warranties of merchantability or fitness for a particular purpose.

CPD®'s liability shall be limited in all events to supplying sufficient product to re-treat and/or repair the specific area to which CPD® product has been applied. CPD® reserves the right to have the true cause of any difficulty determined by accepted test methods. CPD® shall have no other liability, including liability for incidental, consequential or resultant damages, however caused, whether due to breach of warranty, negligence, or strict liability.

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