



LIQUID CERAMIC™ CONCRETE COAT

Product Description

Liquid Ceramic™ Concrete Coat is a thick, polymer-modified cementitious finishing material that can be brushed-on, rolled-on, sprayed-on or even trowelled-on. Formulated as an easy-to-mix, two part mixture comprised of a complex blend of refined cementitious compounds, ceramic microspheres, strands and irregular particulate and a 100% acrylic activating/bonding liquid agent (Liquid Ceramic™ Sealbond). Exhibits phenomenal adhesive characteristics combined with a compressive strength in excess of 3,400 PSI at 120 days. Provides significant resistance to chipping, cracking, peeling and wear. Note that Liquid Ceramic™ Concrete Coat is not a stand-alone finishing product and must therefore be coated.

Intended Uses

Liquid Ceramic™ Concrete Coat can be used a finishing material or repair compound on a wide variety of clean, dry and sound substrates. It is an extremely versatile architectural finish intended for Commercial, Industrial, Institutional and Residential exterior/interior applications. It may be applied over cast or poured concrete, tilt-ups, cinder/concrete block, brick, wood, appropriately primed aluminium, galvanized steel and other metals and vinyls. It can easily be patterned in a wide range of stucco styles or feathered to nothing on horizontal/vertical applications. Forms an integral part of the Liquid Ceramic™ Permanent Coating System providing the ultimate protection available against weathering, water ingress and other environmental hazards. Can be finished in over 1,001 colors resistant to fading.

Product Data

Characteristics	Observation
Weight per unit	55 Lbs. (24.95Kg) - dry composite Note: for liquid activating/bonding agent – See Liquid Ceramic™ Sealbond
Non-Volatile Solids	By weight: 100% By volume: 100%

Toxicity	Under ordinary conditions no respiratory protection is required. Wear a NIOSH approved respirator when exposure to dust exceeds exposure limits. Safety glasses should be worn to prevent eye contact. Wearing contact lenses when using this product under dusty conditions is not recommended. Use gloves, shoes and protective clothing to prevent skin contact. Product contains Portland Cement, Calcium Sulfate, Calcium Carbonate, Magnesium Oxide, Crystalline Silica, Chromates, Ceramic Microspheres, Ceramic Strands and Ceramic Irregular Particulate. Crystalline Silica has been identified by IARC as a known human carcinogen. Health risks depend on exposure duration and levels of airborne dust.
Flammability	Non-flammable Self-extinguishing – does not support flame spread.
Package Stability	Protected from frost and moisture: indefinite
Adhesive Strength	210 + PSI - 1447.9 kPa Liquid Ceramic™ Concrete Coat was tested using the vacuum bell method at 27” – 68.6 cm of mercury. At 210 PSI, the cured concrete substrate on which testing was performed, shattered to smithereens. Recovered concrete substrate particles showed no evidence of product failure and the Ceramic InsulCrete was still anchored thereto.

Application Characteristics			
Material	Dual, easy-to-mix, dry composite and liquid activating/bonding agent (see Liquid Ceramic™ Sealbond).		
Approximate Coverage	16 mils – 1/64” – 0.41mm	525.2 sq. ft. – (48.8 sq. meters) per unit	
	30 mils – 1/32” – 0.76mm	262.1 sq. ft. – (24.4 sq. meters) per unit	
	63 mils – 1/16” – 1.6mm	131.3 sq. ft. – (12.2 sq. meters) per unit	
	125 mils – 1/8” – 3.18mm	65.65 sq. ft. – (6.1 sq. meters) per unit	
	250 mils – ¼” – 6.35mm	32.82 sq. ft. – (3 sq. meters) per unit	
	Spatter / Hopper Gun Technique	250 sq. ft. ~ 1,600 sq. ft. (23.3 ~ 148.6 sq. meters) per unit	
Substrate Preparation	Dry, clean, tight surface with no gloss.		
Application Temperature Range	39° F – 4° C substrate to 80° F – 29° C ambient air in direct sunlight		
Application Method	Roller – brush – sprayer - trowel		
Initial Cure (tack-free)	Air dry, 4 to 8 hours for thin coats 10 to 14 hours for thick application (up to 2 inches – 5 cm) with moderate to low ambient humidity		
Primary Cure	Air dry, 48 hours at 50° F – 15.5° C or greater surface temperature with moderate to low ambient humidity		
Final Cure	90 to 120 days		
Compressive Strength	3 Days strength	675 P.S.I.	4654.1 kPa
	7 “	1350 P.S.I.	9308.3 kPa
	14 “	1975 P.S.I.	13617.6 kPa
	28 “	2740 P.S.I.	18892.3 kPa
	60 “	3280 P.S.I.	22615.6 kPa
	90 “	3390 P.S.I.	23374.1 kPa
	120 “	3410 P.S.I.	23511.9 kPa
Solvent (before curing)	Water		
Cohesion Strength	Outstanding bond to dry or slightly damp surfaces. Strong cohesion to any clean, dry concrete, masonry, asphalt, brick, primed metals and vinyls. Hydrostatic pressure will disrupt this bond.		