



LIQUID CERAMIC™ SEAL BOND

Product Description

Liquid Ceramic™ Seal Bond is a polymer-modified acrylic penetrating finishing sealant. It provides significant resistance to dirt and moisture from penetrating into the substrate. It can be brushed-on, rolled-on, or sprayed-on. Used undiluted directly from the container, it penetrates deep into porous substrates leaving a virtually invisible, clear protective film.

Intended Uses

Liquid Ceramic™ Seal Bond is typically used on exposed aggregate as penetrating sealant intended for Commercial, Industrial, Institutional and Residential exterior applications. It may be applied over exposed aggregated, cast or poured concrete, tilt-ups, cinder/concrete block, and brick.

Product Data

Characteristics	Observation
Weight per US G (3.78L)	10 Lbs. (4.54Kg)
Non-Volatile Solids	By weight: 23 %
Viscosity	40 cps
Toxicity	Material is non-toxic & requires no special ventilation during application. Contains no materials considered to be health hazards.
Flammability	Keep away from heat or open flame.
Package Stability	At 72° F - 22° C >180 days
Abrasion Resistance	CS-17/1000g/1000 cycles: 97mg. loss
Hardness	1H
Impact Resistance	28 inch-pounds of impact with no break in the film surface. Typically, 20 inch-pounds of impact is considered to be a high performance test result.
Flexibility	Withstood deformation of 1.5" – 38mm to 1/8" – 3.18mm
Elongation	2 mils – 0.051mm dry film thickness stretched 110% with 100% full memory.
Moisture Vapor Transmission	14.0 perms A "perm" is a unit of measure expressing a coating's ability to allow moisture vapor to pass through the film, or its "ability to breathe". The lower the "perm" rating, the more likely the coating will blister over time.
High Humidity Resistance	336 hours with no evidence of film deterioration, blistering or peeling from substrate (250 hours required to pass Federal Specifications)
Chemical Resistance	10% Acetic Acid Fair

	2% Nitric Acid	Excellent
	10% Hydrochloric Acid	Excellent
	10% Sulfuric Acid	Excellent
	10% Sodium Hydroxide	Excellent
	10% Ammonium Hydroxide	Good
Salt Spray	336 hours with no evidence of film deterioration, blistering or peeling from substrate (250 hours required to pass Federal Specifications)	
Artificial Weathering	After weatherometer testing (simulated rain, heat, ultra-violet ray and normal weather cycling) the coating showed no evidence of chalking, blistering or peeling, cracking or checking.	
Fungus Resistance	No fungus growth when material tested in an environment of three organisms.	

Application Characteristics			
Material	Polymer modified resin compound		
Approximate Coverage	First coat	Rough porous surface	100 to 150 sq. ft./gallon 8.1 to 13.9 sq. meters/3.78L
		Smooth, tight surface	150 to 200 sq. ft./gallon 13.9 to 18.6 sq. meters/3.78L
	Subsequent coats		250 to 300 sq. ft./gallon 23.2 to 27.9 sq. meters/3.78L
Dry Base Film Thickness	One coat	1 to 2 dry mils – 0.025 to 0.051mm dry film	
	Two coats	2 to 3 dry mils – 0.051 to 0.076mm dry film	
	Three coats	4 dry mils plus – 0.1mm dry film	
Substrate Preparation	Dry, clean, tight surface with no gloss. – will bridge hairline cracks.		
Application Temperature Range	39° F – 4° C substrate to 80° F – 29° C ambient air in direct sunlight		
Application Method	1.5" nap roller – brush – airless sprayer (0.009" – 0.229mm)		
Initial Cure (tack-free)	Air dry, 15 to 30 minutes 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		
Solvent (before curing)	Water		
Cohesion Strength	Outstanding bond to dry or slightly damp surfaces. Strong cohesion to any clean, dry concrete, masonry, asphalt, brick and wood surfaces. Hydrostatic pressure will disrupt this bond.		