CERAMIC INSULCOAT WALL

Product Description

Ceramic InsulCoat Wall is a strong, tough coating, formulated with hollow-core CeryliumTM performance ingredients in a complex 100% acrylic suspension with superior adhesion and abrasion resistance. Provides significant resistance to cracking, chalking, fading, peeling and weathering. Exhibits exceptional adhesive and thermal properties.

Benefits

- Goes Further and Costs Less
- Easy to Apply and Easy to Clean Up
- Long Life and Good Looks
- Green Product that Meets Increasingly Strict Environmental Guidelines
- Weatherproof and High-Breathability
- Year-Round Thermal Barrier (Warmer in the Winter and Cooler in the Summer)
- Provides Significant Life-Cycle Cost Savings
- Valuable Component of Emerging Sustainable Design Programs

Intended Uses

Ceramic InsulCoat Wall is an extremely versatile, high-build architectural coating intended for Commercial, Industrial, Government, and Residential exterior applications. It may be applied on most typical construction surfaces including:

- Cast or Poured in Place Concrete
- Tilt-Ups
- Cinder/Concrete Block
- Stucco
- Brick
- Wood
- Masonry
- Fiberglass
- Aluminum
- Galvanized Steel
- Vinvl
- Specialized Substrates

Ceramic InsulCoat Wall can be tinted to any color. It is available in Pastel, Medium, Deep, and Accent bases.

Product Data

Characteristics	Test Method	Observation
Weight nor LIC College (2.791)	ETMC 141 M-41 1 4104	11 LD (4.00V c)
Weight per US Gallon (3.78L)	FTMS 141 – Method 4184	11 LB (4.99Kg) By weight: 69.1%
N		
Non-Volatile Solids	FTMS 141 – Method 4041	By volume: 60.9%
Viscosity	FTMS 141 – Method 4281	Stormer Viscosity: 100 revolutions in 8 seconds at 500 grams
		Material is non-toxic & requires no special ventilation during
		application.
Toxicity	FTMS 141 – Method 511	Contains no materials considered to be health hazards.
		In container: Non-flammable.
	ASTM 1360 –	On concrete: Self-extinguishing – does not support flame
Flammability	DOT – MVSS 302	spread.
		One year + after opening: no settling or other undesirable
D 1 0 1 11		effects.
Package Stability		Materials completely dispersed after stirring.
		Weight loss in grams:
	ETMC 141 - Made 1 (102	InsulCoat Roof with aggregate 41 g
	FTMS 141 – Method 6192	InsulCoat Roof without aggregate 14 g
Abrasion Resistance	Tabor C17 Wheel - 100	Epoxy floor coating without aggregate 9 g (Typical)
Aurasion Resistance	grams - 1000 cycles	6H – This is the hardest value measured by this test and
Hardness	ASTM D2370	compares to a typical 2H hardness of hardwood floor finishes.
Traidiless	ASTIVI D25/0	28 inch-pounds of impact with no break in the film surface.
		Typically, 20 inch-pounds of impact is considered to be a high
Impact Resistance	ASTM D2794	performance test result.
Impact Resistance	ASTIVI D2/94	Withstood deformation of 1.5" – 38mm to 1/8" – 3.2mm on a
		metal substrate with no loss of adhesion, cracking, chipping,
Flexibility	FTMS 141 – Method 6222	or flaking (mandrel test).
,		12 mils – 0.31mm dry film thickness stretched 160% with
		100% full memory. This was the full extent of the elongation
Elongation	ASTM D2370	and the film never did break.
-	TTC-555	Time for water to penetrate:
	Time for water to penetrate:	One Coat 6.3 mils 30 minutes
Water Resistance (wind-driven rain)	Water driven against test	Two Coats 10.0 mils 11 hours
	surface at a dynamic pressure	Two Coats 12.0 mils none at 24 hours
	equivalent to 98 mph	
		20.0 perms
		A "perm" is a unit of measure expressing a coating's ability to
		allow moisture vapour to pass through the film, or its "ability
	4 GTD 4 FO 6 F	to breathe." The lower the "perm" rating, the more likely the
Moisture Vapour Transmission	ASTM E96 – Procedure B	coating will blister over time.
	FTMS 141 – Method 6201.1	336 hours with no evidence of film deterioration, blistering or
High Hamilda, Davieters	100% condensing humidity at	peeling from substrate (250 hours required to pass Federal
High Humidity Resistance	107° F – 41.67° C	Specifications).
	FTMS 141 – Method 811.1 100% condensing 5% salt fog	336 hours with no evidence of film deterioration, blistering or peeling from substrate.
Salt Spray	at 95° F – 35° C	(250 hours required to pass Federal Specifications).
san spray	at 13 T = 33 C	After Weatherometer testing (simulated rain, heat, ultraviolet
	ASTM E42 – Carbon Arc	ray and normal weather cycling) the coating showed
Artificial Weathering	Weatherometer.	no evidence of chalking, blistering or peeling, cracking or
Anthonia mounicing	250 hours equivalent to 5	checking and only slight yellowing of the 100% titanium
	years.	dioxide white colour.
	yours.	No fungus growth when material tested in an environment of
Fungus Resistance	FTMS 141 – Method 6271	three organisms.
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VOC by SCAQMD 304 / EPA 24			
V.O.C. gm/l (Less Water)	SCAQMD Method 304 (Equation 5.2)	49.0 gm/l	
Volatiles, %	ASTM D2369	32.77	
Water, %	ASTM D4017	27.14	
Density, lb/gal	ASTM D1475	11.65 lb/gal	
Density, gm/ml	ASTM D1475	1.397 gm/ml	

ASTM – (American Society for Testing and Materials) EPA – (Environmental Protection Agency) FTMS – (Federal Test Method Standard) SCAQMD – (South Coast Air Quality Management District) TTC – (Federal Specification TT-C-555B)

Application Characteristics			
Material	Single component, ready-to-use from container with little or no stirring required.		
Approximate Coverage	Rough, porous surface	100 to 175 sq. ft./gallon	
	Smooth, tight surface	175 to 225 sq. ft./gallon	
	One coat	5 to 7 dry mils	
Dry Base Film Thickness	Two coats	10 to 12 dry mils	
	Use proper envelope or substrate preparations systems. Prepare in accordance with Master Painters Institute guidelines. Apply Ceramic InsulSeal to porous and/or weathered substrates. Apply appropriate primers on metal and wood surfaces. Surface must be clean, dry and sound before		
Substrate Preparation	applying Ceramic InsulCoat Wall.		
Application Temperature Range	39° F – 4° C substrate to 80° F – 29° C ambient air in direct sunlight.		
Application Method Initial Cure (tack-free)	1.5" nap roller – brush – airless sprayer (0.023" – 0.584mm tungsten-carbide tip).		
initial Cure (tack-free)	Air dry, 15 to 30 minutes with moderate to low ambient humidity.		
Primary Cure	Air dry, 48 hours at 60° 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, primed metal or wood surfaces, and various flexible membrane systems. Hydrostatic pressure will disrupt this bond.		
Specification for Application	Envirocoatings requires a two-coat system of 10-12 dry mils over a clean, dry, sound substrate. In some cases where minor dusting off is occurring and the substrate has been properly cleaned according to Master Painters Institute guidelines, Ceramic InsulSeal may be applied as a penetrating conditioner to help solve this problem. Due to the nature of dusting off this system will only work where minor dusting off is occurring.		

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