



Coval Concrete

Gloss, Satin, Matte

Topcoat for Precast, Highly Polished Concrete or Concrete Primer

PRODUCT DESCRIPTION:

Coval Concrete is a thin-film single component coating designed to protect and rejuvenate epoxy floors and to coat highly polished & densified concrete and masonry surfaces from the destructive forces of water, chloride ion penetration, harsh chemicals, food and beverage acids, bird and animal waste matter, salt spray, gum, and graffiti. The coating forms covalent bonds with the inorganic concrete. Traditional coatings require a rough surface profile during concrete preparation to give good adhesion. This coating does not and is the only system that can be used reliably on polished concrete to give a superior appearance glossy clear finish.

The inorganic properties of the coating give it hardness approaching glass. In addition, the curing process and chemistry allows it to form bonds with itself as well as the surface. This ability to covalently bond with itself never goes away. Our coating is an infinite system that with minimal prep can be easily repaired to recreate the original gloss at any time.

COVAL CONCRETE will not peel or flake. **It is designed for application over our Coval Primer. COVAL CONCRETE** can be used as a guard coat over polished and densified concrete or as a topcoat over epoxy and urethane. Available in a gloss, satin, or matte finish.

RECOMMENDED USES:

COVAL CONCRETE is a great solution to combat moisture, food stains, mild acids, bird & animal waste, and graffiti.

- Precast concrete walls & structures
- Polished concrete
- Masonry pavers
- Bricks
- Cement block
- Driveways
- Paths
- Cement overlays

Thin Film Coatings:

CAUTION: Coval Coatings are professional grade coatings and should only be applied by experienced professionals. Coval has created a completely new kind of hybrid cross linking coating. This extreme cross

Coval Technologies, 12811 Royal Dr, #110, Stafford, TX 77477
www.covaltechnologies.com (USA) +1 281 566 4277
sales@covaltechnologies.com

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linking is the science that allows the coatings to be so hard and durable, yet so thin. As they cure, the extreme cross-linking creates a high surface tension which in turn gives the coating extreme hardness.

The best practice is to apply enough coating to “wet-out” the surface and leave it to dry. Do not exceed 2-3 mils, wet film thickness. **MORE IS NOT BETTER.** If you apply the coating too thick, it will attempt to cross-link away from the surface, which may cause fracturing or delamination. Over applying the coating will either destroy the coating or cause whatever the coating is applied on to peel. Yes, it is amazingly strong.

To achieve a thicker coating, apply in multiple layers rather than applying one ‘thicker’ layer.

Our coatings are specifically designed for the substrate listed in the Data Sheet and should never be applied to substrates not listed.

PRODUCT CHARACTERISTICS:

COVAL CONCRETE is	<100 g/liter VOC
ASTM D-4060 Taber Abrasion	<1
ASTM D-3363 Film Hardness Taper,	39.11
ASTM D-2047 Static Coefficient passes ADA requirements*	
E96-10 Water Vapor Transmission, average WVT 0.8053 gr/ft ² /hr., average perms 1.9406 gr/ft ² /hr. G155 Xenon Arc, wavelength 340nm irradiance 1.0 w/m ² 500 hours, slight change	
Temperatures up to 300 degrees Fahrenheit	
ASTM D-245 Heat Resistance	230 C
ASTM D4541 Adhesion	7.1 MPa
ASTM D3359-97 Adhesion	4
ASTM D8770 Water Immersion	9
ASTM B117-111 Salt Spray Scribed	6

*Always obtain independent retest of the static coefficient after applying any coating on walking surface to verify new application meets OSHA requirements.

Stain Data:

Spread Rate

Recommended Spread Rate per coat:

Wet mils: 5.0-6.0 per coat

Dry mils: 0.4 average

Coverage:

Coverage: 250-350 sq. ft./gal (approximate)

Coverage will vary depending on the porosity and texture of the substrate, as well as the applicator’s method of application. Always use Coval Concrete Primer to pre-seal porous concrete surfaces first.

Polished and densified concrete will yield the highest spread rate.

STAIN DATA

Staining Agent	30 Minute Stain Resistance	Cleaner Required	Staining Agent	30 Minute Stain Resistance	Cleaner Required
10% Citric Acid	YES	Dry Cloth	Glacial Acetic Acid	YES	Dry Cloth
10% Nitric Acid	YES	Dry Cloth	Grape Juice	YES	Dry Cloth
20% Hydrochloric Acid	YES	Dry Cloth	Iodine	YES	Dry Cloth
30% Sulfuric Acid	YES	Dry Cloth	Lipstick	YES	Dry Cloth
Acetone	YES	Dry Cloth	Methyl Ethyl Ketone	YES	Dry Cloth
Balsamic Vinegar	YES	Dry Cloth	Motor Oil	YES	Dry Cloth
Betadine	YES	Wet Cloth	Mustard	YES	Wet Cloth
Black Crayon	YES	Wet Cloth	Permanent Marker	YES	Solvent
Brake Fluid	YES	Dry Cloth	Picante Sauce	YES	Dry Cloth
Brown Shoe Polish	YES	Wet Cloth	Pickle Juice	YES	Dry Cloth
Calamine Lotion	YES	Dry Cloth	Red Wine	YES	Dry Cloth
Catsup	YES	Dry Cloth	Skydrol	YES	Dry Cloth
Chocolate Syrup	YES	Dry Cloth	Sodium Hydroxide	YES	Dry Cloth
Coffee	YES	Dry Cloth	Spray Paint	YES	Solvent
Ethylene Glycol	YES	Dry Cloth	Tea	YES	Dry Cloth
Gasoline	YES	Dry Cloth	Worcestershire Sauce	YES	Wet Cloth

Drying Time: (@ 77 F, 50% RH):
Temperature, humidity, and film thickness dependent. (The higher the humidity, the faster the dry time)

Touch: 2-3 hours

Through: 3-5 hours

Walk on: 5 to 7 hours

Full Cure: 7 Days

Properties:

Color: Clear to slight amber to rose (depending on temp and humidity) always dries

clear. Finish: Gloss or Satin

Vehicle Type: Solvent Base

Flash Point: (C Penskey-Martens closed Cup) -

9C/15F VOC: Less than 100 g/L

Weight/Gallon: 7.36 lb/g

Semi - breathable

SAFETY AND ENVIRONMENTAL:

Always wear OSHA approved 1910.134 and ANSI Z88 2 respiratory protection. Fresh air and exhaust should be provided in enclosed work areas. If inhaled, remove affected person to fresh air and call physician immediately if physical difficulties occur. Wear butyl-rubber gloves and other skin protection to avoid contact. In the event of contact with skin, wash skin thoroughly with soap and water. Chemical safety goggles or splash shields are required. Do not wear contacts without eye protection. Immediately flush eyes with water for 15 minutes after contact and get medical attention. If accidentally swallowed, rinse mouth thoroughly and obtain immediate medical attention. (In enclosed areas, make sure to have an observer watching the applicator for any signs of physical distress)