COVAL CONCRETE PRIMER

Technical Data Sheet

www.covaltechnologies.com

Fast-Drying Primer for Coval Concrete

I.PRODUCT DESCRIPTION

Coval Concrete Primer is a fast-drying, acetone-based acrylic sealer designed to fill in the concrete pores prior to applying **Coval Concrete**. When **Coval Concrete** is applied, it will incorporate the acrylic of the primer into the coating and bond to the concrete surface as one. Using **Coval Concrete Primer** will also reduce the amount of **Coval Concrete** used because material is not lost by seeping into the surface pores. **Coval Concrete Primer** is also used for masonry surfaces to seal the interior pores before sealing with Coval Concrete.

Do not over-apply. Coval Concrete Primer is an acrylic. When **Coval Concrete** is applied it will re-emulsify this acrylic into the coating. If you overapply this primer, it will create a barrier that can prevent **Coval Concrete** from bonding with the surface and will peel off. Stop applying once the primer is not being absorbed by the concrete.

Coval Concrete Primer should NOT be used on non-porous surfaces. Do not use over Coval coatings or any other brand of coating. It is only to be applied directly onto concrete or masonry. If removal is needed, use an acetone-soaked rag or microfiber cloth.

II.RECOMMENDED USES

A. Concrete floors broom finish
B. Concrete Block
C. Stamped Overlays
D. Precast concrete & vertical masonry

III.PRODUCT CHARACTERISTICS

A.PROPERTIES

1. Color: Clear
2. Vehicle Type: Solvent Base
3. Flash Point: (C Penskey-Martens closed cup) -20C/-4F CC
4. VOC:<20 g/ltr
5. Specific Gravity: .81-.83
6. Breathable: Yes

B.DRY TIME

1. Drying Time: (77°F & 50% RH)
2. Touch Dry: 2-6 minutes

C.SPREAD RATE

Wet mils: 4-5 Dry mils: .4-.5

D. COVERAGE

Coverage will vary depending on the porosity and texture of the substrate, as well as the applicator's method. Check every surface first by applying to a small test area to assure that it will be compatible.

Smooth Concrete	Do not use!
Broom Finish Concrete	250-350 Sq.Ft./gal
Porous Concrete	200-250 Sq.Ft./gal
Polished Concrete	Do not use!
Split Face Block	200-250 Sq.Ft./gal
Fluted Block	200-250 Sq.Ft./gal
Concrete Block	200-250 Sq.Ft./gal
Brick (Clay)	150-250 Sq.Ft./gal
Stucco	250-300 Sq.Ft./gal
Concrete Pavers	250-300 Sq.Ft./gal
Artificial Stone	250-300 Sq.Ft./gal

E. INDOOR SAFETY

During application, **1) TURN OFF ALL PILOT LIGHTS OR OPEN FLAMES IN THE BUILDING**
2) Always wear safety googles 3) Wear an OSHA approved organic vapor respirator.

IV. APPLICATION INSTRUCTIONS

A. Surface Preparation

- Sweep, dust and mop clean first.
- Use an etching solution to remove all laitance or grind to remove any glues or adhesives.
- Grinding is not recommended unless necessary.
- Surface must be clean, dry, and in sound condition.
- Remove all oil, dust, grease, dirt, and other foreign material.
- Mask off and protect areas that should not be sprayed.

IMPORTANT: REMOVE ANY SILICONE

To determine if the surface is sealed with another coating or curing compound, sprinkle water onto surface. If the water is absorbed and the surface becomes darker, it has not been sealed. If the water beads up there is a coating or sealer that must be removed to allow proper penetration. To remove silicone sealers, scrape, clean with mineral spirits, scrub if necessary, rinse with fresh water and allow to dry.

WARNING: Do not use on painted and non-porous surfaces

B. GENERAL INSTRUCTIONS

- When possible, use a Coval Acetone Sprayer. Only use a **solvent resistant spray system rated for Acetone**.
- With the Coval sprayer, a red fan tip may be used as well as, a gray full cone tip for smaller/modulated areas or use a black full cone tip for wide open areas. You can also use TeeJet gray hollow cone jet tip (TX-VK8) for smaller areas or a TeeJet Brown hollow cone tip (TX-VK10/12) to spray larger areas.
- To apply, hold the sprayer tip square to the surface being sealed at approximately 6-8 inches above the surface.
- If applying with a cone tip, apply using a circular motion and spray with a light mist.
- Extremely porous surfaces may require more than one coat to seal the pores.
- **Do not** try and seal the surface in one thick coat as this may cause air bubbles to appear, and result in overapplication of primer.

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CAUTION: If using spray application method in an enclosed space, make certain to tent off the area being sprayed with plastic tarps to avoid spray dust from traveling and contaminating other surfaces with over spray dust. Tented and enclosed areas always require to be positively supplied with fresh air and have ventilated exhaust to outside using fans. Never spray near any open flame or any possible source of ignition such as pilot light, or anything that may spark, as this may cause ignition and explosion of the fumes and vapors. In enclosed areas, make sure to have an observer watching the applicator for any signs of physical distress.

C. TEST AREA

Due to the wide variety substrates and the various environments, always test **Coval Concrete Primer** in an inconspicuous location to ensure adhesion and determine that the desired look is achieved. There will be an enhancement or change in appearance from the natural surface.

D. NEW CONCRETE

For new concrete, the surface needs to be dried to 13% moisture or less using contact meter method and must be cured at least 7 days from the date of pour. All surfaces must be cleaned. Hard troweled smooth surfaces should be abraded or chemically etched to 'open-up' the cap and remove the laitance on the concrete surface.

E. EXISTING CONCRETE

For existing concrete, the surface must be cleaned of any existing sealers, silicones, grease, dirt, and dust.

F. INTERRUPTION OF WORK

It is possible that areas can remain untreated if work is interrupted, once it is dry. It is advisable to stop application on a joint or other obvious marker so the applicator can begin where the application previously ceased.

G. CLEAN UP

1. Clean tools and flush equipment with acetone twice (minimum) immediately after application.
2. Remove spray tips and soak in acetone.

V. APPLICATION TYPES

WARNING: Do not use on painted surfaces.

A. Acetone Dye Application (optional)

If using an acetone dye for interior or exterior application, put six ounces of acetone dye per gallon into **Coval Concrete Primer**. Mix a small batch to ensure the desired color mix is approved. Apply the color in layers to achieve the desired color effect, **DO NOT OVER APPLY**. Follow the same application Instructions above. Always do a test area to ensure the desired color is achieved. The color can be diluted with more primer or darkened by adding more dye, but do not exceed six ounces of dye per gallon.

B. Coval Concrete Protection

Coval Concrete Primer is not to be used as a stand alone product, to protect the enhanced or stained concrete against food and liquid acid etching, apply a coat of **Coval Concrete** as a topcoat. **Coval Concrete** is available in gloss, satin, or matte finish. Once the desired finish is achieved with **Coval Concrete Primer** (with or without dye), wait 5-15 minutes until completely dry and seal with **Coval Concrete**. If powder dyes are used, then lightly go over the surface with a floor machine and white buffing pad. Microfiber or vacuum any remaining powder residue. Apply **Coval Concrete** per datasheet instructions. **Do not coat over the primer with Coval Ultimate Topcoat** or any other sealer as this will not properly re-emulsify the acrylic.

VI. STORAGE

1. If excess coating remains in a container, Coval recommends the following:
    1. Put a nitrogen or an argon blanket on the topof the remaining liquid in the container, **OR**
    2. Move the remaining coating to a smaller container with as little air/oxygen in it as possible. Use only HDPE containers.
2. Store in a temperature-controlled, dry location.
3. Do not store solvent-based products in the sun, warm storage area, or in a sun-heated vehicle as overly heated products can turn dark in color and remain tinted when applied.
4. Shelf life: 36 months
5. Maximum storage temperature: 80°F

VII. CARE AND MAINTENANCE

1. **Coval Concrete Primer** is meant to prime a surface and has similar performance as a solvent-based acrylic as a stand-alone sealer.
2. The maximum temperature that **Coval Concrete**, applied over **Coval Concrete Primer**, can withstand continuously and under peak conditions when applied to a surface is, Continuous: 250°F, Peak: 350°F.

VIII. SAFETY AND ENVIRONMENTAL

1. **INDOORS, TURN OFF AND EXTINGUISH ALL PILOT LIGHTS OR OPEN FLAMES IN THE BUILDING.**
2. Always wear OSHA approved PPE and 1910.134 and ANSI Z88 2 respiratory protection.
3. Fresh air and exhaust should be provided in enclosed work areas.
4. If inhaled, remove affected person to fresh air and call physician immediately if physical difficulties occur.
5. 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.
6. 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.

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7. If accidentally swallowed, rinse mouth thoroughly and obtain immediate medical attention.
8. In enclosed areas, make sure to have an observer watching the applicator for any signs of physical distress.
9. Consult the Safety Data Sheet (SDS) for more information concerning proper Personal Protective Equipment and precautionary measures that are recommended for proper protection while handling this product.

SCAQMD & PROP 65 - Coval Concrete Primer contains less than 100 g/L VOC and exceeds SCAQMD Rule 1113 requirements, the highest air quality control standards in the United States. Coval Concrete Primer contains no known carcinogens under Proposition 65, California's Drinking Water and Toxic Enforcement Act of 1986.

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