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Coval Primer

Fast Drying Primer for Coval Concrete

PRODUCT DESCRIPTION:

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

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

This should NOT be used on polished concrete or any other non-porous surfaces. If you can see a white residue, then you have applied too much. Remove using an acetone-soaked rag or microfiber and start again.

HOT TIRE PICKUP

If you are coating a garage floor where there will be hot tires, then you need to make sure you are getting a good bond with the floor. Over-application of the primer on garage floors will result in delamination due to hot tires. We recommend reducing the volume of Primer when coating garage floors or driveways.

GRIND AND SEALS

Watch the 2-part training video:

“Concrete Tutorial Part 1” <https://www.youtube.com/watch?v=iB9ajdZAd50>

“Concrete Tutorial Part 2” <https://www.youtube.com/watch?v=Nsv5FpFcuJw>

DECORATIVE FLOORS

Watch this training video:

Decorative Floor Application” <https://www.youtube.com/watch?v=enPKNESI8sE>

PRODUCT CHARACTERISTICS:

Color: Clear:
Vehicle Type: Solvent Base
Flash Point: (C Penskey-Martens closed cup) -20C/-4F CC
VOC: <20 g/ltr
Weight: 6.7lb/gallon
Dry Time: 2-6 minutes
Breathable: Yes

(Drying Time at 77 Deg F & 50% Relative Humidity)

SCAQMD & PROP 65

Coval 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 Primer contains no known carcinogens under Proposition 65, California’s Drinking Water and Toxic Enforcement Act of 1986

Coverage:

Substrate	Sq. Ft / gal
Smooth Concrete	300-400
Broom Finish Concrete	250-350
Porous Concrete	200-250
Polished Concrete	Do not use!
Split Face Block	200-250
Fluted Block	200-250
Concrete Block	200-250
Brick (Clay)	150-250
Stucco	250-300
Sandstone, Limestone	250-300
Flagstone, Concrete Pavers	250-300
Unglazed Ceramic/Porcelain	400-500
Travertine, Tumbled Marble	300-400
Artificial Stone	250-300

Coverage will vary depending on the porosity and texture of the substrate and applicator. Check every surface first by applying to a small area to make sure that it will be compatible with the primer.

APPLICATION INSTRUCTIONS:

Surface Preparation: Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, and other foreign material. Recommendation: If using a concrete stain, it needs to be mixed into Coval Primer 1 hour before application to ensure the powder stain is completely dissolved into the mixture. Mix the stain in when you arrive at the job site and set aside while you clean the floor. Mask off and protect areas that should not be sprayed.

WARNING: Do not use on painted surfaces, non-porous surfaces including polished concrete

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Test Area

Due to the wide variety substrates and the various environments, always test Coval 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.

Product Preparation:

IMPORTANT: Remove all existing silicone sealers. 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, clean surface, rinse with fresh water and allow to dry.

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 need to be cleaned. *Hard troweled smooth surfaces* need to be abraded or chemically etched to 'open-up' the cap and remove the laitance on the concrete surface.

Existing Concrete:

For existing concrete, the surface must be cleaned of any existing sealers, silicones, & grease. Acid etching or equivalent concrete grinding to uniformly open the pores of the concrete is required for all concrete coatings to perform successfully. A 400-800 grit profile is ideal.

Stone:

For *new porous natural or artificial stone*, make certain the surface is clean and dry by either lightly power washing or steam cleaning. Allow to dry to 13% or less moisture content using contact meter method.

For *existing natural or artificial stone*, the surface must be cleaned and stripped of any previous sealers that may contain silicone.

APPLICATION TYPES:

WARNING: Do not use on painted surfaces.

Spraying

Coval Primer is best applied with an acetone/alcohol proof pump sprayer fitted with a red fan tip. To apply, hold the fan tip square to the surface being sealed at approximately 10" to 12" above the surface. In a circular motion spray with a light mist. Apply several light coats approximately 2 – 3 minutes apart until the desired look is achieved and the surface is sealed. Extremely porous surfaces may require 2 to 3 applications to seal and enhance. Do not try and seal the surface in one thick coat as this will cause air bubbles to appear.

NOTE: When spraying outdoors, make certain there will be no rain for at least 5 minutes after anticipated completion time. If there is high wind, this will affect the quality of the finish as blowing wind can disrupt the spray pattern from the sprayer and contribute to contamination of the finish. It may be necessary to erect a windscreen to protect the area prior to beginning the coating application.

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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.)

Rolling

Make certain the surface is clean per preparation instructions. Stir the contents thoroughly to re-suspend the particles that may have settled to the bottom. Make certain to **re-stir every 15-20 minutes** during the application process to re-suspend the particles. Use a white, ultra-smooth high-density foam roller (available at most major home improvement stores), pour the Coval Primer into a roller tray, and completely saturate the roller. Apply in a cross-pattern; left to right, then up and down as quickly as possible, since the coating dries fast.

To obtain the best results, do not overwork the coating, as it dries quickly. Do not bear down with the roller. Use light strokes and use the tip of the roller to smooth out the coating.

If applying Coval Primer in an enclosed area, make sure to have an observer watching the applicator for any signs of physical distress.

Brushing

Make certain the surface is clean per preparation instructions. Stir the contents thoroughly to re-suspend the particles that have settled to the bottom. Make certain to **re-stir every 15-20 minutes** during the application process. Select the appropriate size brush width based on the surface area being coated. Using only a good quality China bristle brush, apply in a cross-pattern; up and down, then left and right.

To obtain the best results, do not overwork the coating, as it dries quickly. Do not bear down with the brush. Use light strokes using the tip of the brush to smooth out the coating.

If applying Concrete Prima in an enclosed area, make sure to have an observer watching the applicator for any signs of physical distress.

Stain Application (optional)

If using a stain mix for interior or exterior application, put one bottle of stain into to 3 gallons of Coval Primer and let sit 1 hour before applying to ensure the stain is completely dissolved into the mixture. This will provide an average color range. Apply the color in layers to achieve the desired color effect. Follow the same application Instructions above. Always do a test area to ensure the desired color is achieved. The stain can be diluted with more primer or darkened by adding more stain.

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Coval Concrete Protection

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 desired finish is achieved with Quick Seal & Enhance (with or without stain), wait 5 minutes, then lightly go over the surface with a floor machine and white buffing pad. Wipe up or vacuum any remaining dust or debris. Apply Coval Concrete per datasheet instructions. ***Do not coat over the primer with Coval Ultimate Topcoat as this will not be as effective in re-emulsifying the acrylic.***

INTERRUPTION OF WORK:

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

CLEAN UP

Clean tools and flush equipment with acetone thoroughly at least twice immediately when finished.

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. 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.

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