



COVAL STONE COAT

Technical Data Sheet

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www.covaltechnologies.com

Coval Stone Coat, clear, thin-film, protective sealer for stone surfaces.

I. PRODUCT DESCRIPTION

Coval Stone is a thin-film, single component, clear sealer designed to protect honed and highly polished stone while preserving the polished look and protecting it from surface wear and harsh chemicals. It creates a covalent bond with the substrate and is applied with an HVLP sprayer or microfiber applicator pad. The stone should be fully prepped prior to the application of **Coval Stone**. Coval Coatings are UV stable and resist moisture, stains, chloride ion penetration, dirt, ice, acids, bird and animal waste, and graffiti damage to the substrate.

II. RECOMMENDED USES

- Marble or any other calcium carbonate natural stone
- Granite countertops and surface
- Manufactured clay-based tiles and synthetic surfaces
- Architectural hard surfaces with assorted, mixed substrates

III. PRODUCT CHARACTERISTICS

A. PROPERTIES

- Color: Clear, or clear to slight amber (depending on temperature and humidity)
- Finish: Clear-Gloss
- Vehicle Type: Solvent Base
- Flash Point: Penskey-Martens closed cup 9°C/15°F
- Specific Gravity: .83-.85

B. DRY TIME

- Drying Time is based on 50% RH, @70°F: (**Coval Stone Coat** is a moisture cured coating and higher humidity will shorten drying time)
- Touch Dry: 2-4 hours
- Light use allowed in 4-6 hours, daily use allow 24 hours
- Dry to Recoat or Burnish: Coval Coatings are designed to give excellent performance with a single coat. If recoating is necessary, wait for a minimum of 2-4 hours. It may take longer due to low humidity and burnishing with a natural hair pad is required between coats.
- Full Chemical Resistance Cure: 7 days

C. COVERAGE

Coverage will vary depending on the porosity and texture of the substrate, as well as the applicator's method of application. Below are typical coverage rates:

Coverage Rates 1st Coat

Surface	Sq. Ft./gal Coverage
Granite	500
Limestone	300
Polished Marble	800
Quartz	800

****Coverage rates will vary depending on substrate and porosity****

An additional 200-400 sq.ft/gal can be achieved on additional coats.

D. TESTING RESULTS

Staining Agent	Resistance Time (h)	Cleaner Required
10% Citric Acid	12	Dry Cloth
Acetone	48+	Dry Cloth
Balsamic Vinegar	12	Dry Cloth
Betadine	6	Wet Cloth
Brake Fluid	48+	Dry Cloth
Coffee/Tea	48+	Dry Cloth
Gasoline	48+	Dry Cloth
Permanent Marker	48+	Solvent
Red Wine	48+	Dry Cloth
Spray Paint	48+	Solvent

E. INDOOR SAFETY

Before application, **1) TURN OFF ALL PILOT LIGHTS OR OPEN FLAMES IN THE BUILDING,**

During application, **2) Always wear safety goggles 3) Wear an OSHA approved organic vapor respirator.**

IV. APPLICATION INSTRUCTIONS

A. SURFACE PREPARATION

- Sweep, Dust and Decontaminate

IMPORTANT: REMOVE ANY SILICONE

Decontaminate any surface to be coated, removing oils, grease, wax, fatty acids, and other contaminants by using detergents, etching solutions, heavy duty cleaner/degreaser, steam cleaning, or mechanical removal.

2. PREVIOUSLY HONED OR POLISHED STONE

- Clean the surface before application and **remove any penetrants, sealers or waxes**. DO A TEST AREA in an inconspicuous spot to ensure there is not any issue with the adhesion or curing process.
- Coval Stone** is not formulated for application over painted surfaces or epoxy.
- TEST AREA**
 - When using **Coval Stone** on a new substrate for the first time, clean the area, then test it on a small, inconspicuous area to ensure adhesion and determine that the desired look is achieved. Due to the wide variety of texture and porosity of different types of stone and naturally made surfaces and the various methods of application and environments, different reactions may occur. Once satisfied, work can begin.
 - There will be a slight enhancement or change in appearance from the natural surface when using **Coval Stone**. It will depend on the variety of the stone.
 - If ever in doubt about a coating, TEST it first.



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B. GENERAL

1. Counter Tops and Other Small Surface Areas.

- a. **Coval Stone** can be applied in a variety of ways depending on the skill of the installer. The most common way to apply **Coval Stone** is with an applicator pad and then back rolled with a foam roller.
- b. Begin by saturating the applicator pad with **Coval Stone** over the area where starting the installation.
- c. The coating will begin to tack on average in 1-2 minutes, which is plenty of time to work at a relaxed pace over a 6-8 foot wet edge.
- d. When spray applying an HVLP is recommended, only use a solvent resistant spray system rated for acetone. Have product staged in the work area to keep the process moving. Quickly refill the applicator tray and avoid touching previously coated surfaces.

2. STONE FLOORS

- a. Stone floor - Coval can be sprayed by using an airless sprayer or acetone pump sprayer.
 - b. Vertical wall – Coval recommends using an HVLP with 1.2-1.4mm spray tip at pressure between 8-15 PSI.
 - c. A commercial air scrubber is recommended to limit the amount of airborne solvents when spraying in a confined area.
 - d. Cover the adjacent areas to protect from overspray. Have product staged across the floor to keep the process moving. Quickly refill the sprayer and avoid touching previously sprayed surfaces.
3. **If applying outdoors**, make certain the ambient temperature is between 40°F and 90°F, and Relative Humidity (RH) is 90% or lower. Check the forecast for low wind and no chance of rain for a minimum of 5 hours after the estimated time of completion of the coating process. Pick the coolest time of day to minimize the stone surface temperature.
4. Confirm and schedule so that no morning dew, or sprinkler watering occurs 5 hours minimum after application.
5. **BURNISHING: Coval Stone** can be burnished if dry to the touch and as needed to enhance the appearance and smooth the surface. Use a standard natural hair pad if the coat has cured less than 24 hours. Use a diamond impregnated pad designed for polishing after 24 hours.
6. While 1 coat of **Coval Stone** may offer sufficient protection, to achieve better performance like other Coval Products two coats will enhance the wear and stain resistance of the sealer.

C. CLEAN UP

1. Clean tools and flush equipment with acetone twice (minimum) immediately after application.
IMPORTANT: Once the coating is dry, the tools will not clean up with any solvent.
2. Do not reuse applicator pads, rollers and any other application consumables between projects, as they may be contaminated or cause application issues. When cleaning HVLP sprayer, pour in 1 pint of acetone and secure cap of sprayer, shake vigorously to clean all side walls of tank. Then spray acetone through to thoroughly rinse HVLP spray assembly and spray tip.
3. Release pressure, remove spray tip and place in cup of acetone.
4. Add another 1 pint of acetone to tank and repeat rinsing cycle.
5. When finished, release pressure, open cap and let dry.

D. STORAGE

If excess coating remains in a container, Coval recommends the following:

1. Put a nitrogen or argon blanket on the top of the remaining liquid in the container, (Argon gas can be found in small containers, sold as wine preservers on amazon) **OR**
2. Move the remaining coating to a smaller container with as little air/oxygen in the container as possible. Use only HDPE containers.
3. Store in a cool, dry location. 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: 12 months
5. Store in temperature-controlled environment not to exceed 80°F.

V. CARE AND MAINTENANCE

1. Wipe up spills as soon as possible.
2. Do not use heavy abrasive pads.
3. A soft brush or white buffing pad is sufficient to remove stains from the surface once cured.
4. Neutral pH cleaners, disinfecting cleaners, and de-greasers will not damage the finish and can be used regularly.
5. Remove paint spills or graffiti with rubbing alcohol or acetone and rinse with water.
6. If high use areas show wear, clean area with 3M maroon scotch bright pad. Tack surface with acetone keeping the leading edge of the microfiber pad always moving in the same direction. Then apply a fresh coat of **Coval Stone**.



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VI. SAFETY AND ENVIRONMENTAL

1. **INDOORS, TURN OFF AND EXTINGUISH ALL PILOT LIGHTS OR OPEN FLAMES IN THE BUILDING.**
2. Always wear OSHA approved 1910.134 and ANSI Z88 2 respiratory protection.
3. 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.
4. 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.
5. 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.
6. If accidentally swallowed, rinse mouth thoroughly and obtain immediate medical attention.
7. In enclosed areas, make sure to have an observer watching the applicator for any signs of physical distress.

Please see Coval FAQs for the specific product online at www.covaltechnologies.com.