



COVAL ANTI-GRAFFITI

Technical Data Sheet

1/3

www.covaltechnologies.com

Coating for Signs and most Painted Murals

I. PRODUCT DESCRIPTION

Coval Anti-Graffiti coating is a clear thin protective coating for most signs, and painted murals. ANTI-GRAFFITI is designed to provide a thin barrier between the graffiti and the surface it is applied to. ANTI-GRAFFITI is now the surface that you can clean off the graffiti without ever touching the surface underneath. No more damage from graffiti as this long-lasting barrier between the substrate and graffiti allows the continued removal of graffiti without damage to underlying paint, signage, or the substrate itself. ANTI-GRAFFITI is a non-sacrificial coating that lasts through multiple cleanings.

WARNING: Not for use on HDPP or smooth HDPE surfaces. Test on Murals to assure paint compatibility.

II. RECOMMENDED USES

Great solution for graffiti damage from paint, permanent markers, and stickers.

- A. Signs, including the new diamond reflective highway signs
- B. Painted Murals
- C. Use Coval Concrete or Coval Metal for anti-graffiti protection on structures, rough concrete surfaces, sound walls, bare metal, or painted metal surfaces

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 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. Spraying too heavily on a vertical surface will also cause it to run.

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.

III. PRODUCT CHARACTERISTICS

A. PROPERTIES

- 1. Color: Clear / Translucent
- 2. Finish: Gloss only
- 3. Vehicle Type: Solvent Base
- 4. Flash Point: Penskey-Martens closed cup -9°C/15°F
- 5. VOC: Less than 100 g/L
- 6. Weight/Gallon: 7.36 lb./gal.
- 7. Non-breathable

B. DRY TIME

- 1. Drying Time: at 70°F, 50% RH
Temperature, humidity and film thickness dependent.
- 2. Touch: 2-3 hours
- 3. Through: 3-5 hours
- 4. Full Cure: 7 days

C. SPREAD RATE

Recommended Spread Rate per coat:

Wet mils: 0.5-1.0 per coat.

Dry mils: 0.1-0.6 average

D. COVERAGE

600-1000 sq. ft/gal (non-porous surfaces)

200-400 sq. ft/gal (porous surfaces)

Coverage will vary depending on the porosity and texture of the substrate and application process.

SCAQMD & PROP 65

Coval Anti-Graffiti contains less than 100 g/L VOC and exceeds SCAQMD Rule 1113 requirements, the highest air quality control standards in the United States. MC 400 contains no known carcinogens under Proposition 65, California's Drinking Water and Toxic Enforcement Act of 1986.

IV. APPLICATION INSTRUCTIONS

ANTI-GRAFFITI, as with most final finishes, is best sprayed onto the surface to achieve the best look and proper spread rate. With all methods of application, always mask off any adjacent surfaces to keep them free of drips or accidental coating. However, if the project does not allow for spraying, as an alternative ANTI-GRAFFITI can also be rolled or brushed on depending on the configuration of the piece, the location and the desired finish are available. This type of alternate application will not yield the same spread coverage and will not yield the optimum smooth finish as spraying.



COVAL ANTI-GRAFFITI

Technical Data Sheet

2/3

www.covaltechnologies.com

If applying outdoors, make certain the ambient temperature is between 45° F and 105° F, RH 90% or less, and that there is no chance of rain for a minimum of 5 hours after the estimated time of completion of the coating process. Also make certain there will be no additional morning dew to make the surface damp again before it has dried. For diamond prism ink signs the signs must be sprayed and lying flat or ink will run

A. SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material.

PAINTED OR COATED SURFACES, PLASTIC AND SIGNS

Clean entire surface (do not use solvents as this will ruin most of this type of surfaces), rinse with fresh water. Make sure the surface is clean and dry, and then apply Coval Anti-Graffiti coating directly over the surface with the spray method only as rolling or brushing our solvent based coating may cause the paint to smear from the pressure of the roller or brush moving across the surface.

UNPAINTED MASONRY AND CONCRETE

For all porous masonry and concrete make sure the surface is clean and dry. Once the surface is completely dry, less than 13% moisture, pre-seal the surface with Coval Concrete Sealer (See Coval Concrete Sealer Data Sheet for complete application instructions). Note: we recommend our Concrete Sealer as it dries in less than 5 minutes which saves on labor and down time. Other sealers can between 3 – 24 hours to dry before application of our Anti-Graffiti coating.

TEST AREA

Due to the wide variety substrates and the various methods of application and environments, always test Coval Anti-Graffiti in an inconspicuous location to ensure adhesion and performance. There will be a slight enhancement or change in appearance from the natural surface in addition to a gloss look. (Never roll or brush on painted surfaces or signs. Spray only.)

B. APPLICATION TYPES

1. SPRAYING

When surface preparation is complete and surface is dry and free of dust, begin application using a low volume, low pressure (LVLP) or airless sprayer with a 1.0 – 1.3 size tip and the pressure set at approximately 12 to 15 psi. On a separate piece of cardboard, adjust the spray gun to first spray a test pattern to achieve an 8" elongated pattern approximately 3" wide in the middle without too much liquid coating as to cause any puddling. Once this spray pattern is achieved and the desired fluid amount is on the test cardboard you are ready to begin. Spray the surface in a cross-pattern; left to right, then up and down at a medium pace approximately 8" to 10" off the surface as this material needs to go on thin. This will provide sufficient coverage and will help prevent voids in the surface. Desired wet film thickness (WFT) is approximately 0.5 to 1.0 mils.

NOTE: If there is high wind, this will affect the quality of the finish, wind can disrupt the spray pattern from your sprayer, and it can contribute to contamination of the finish from blowing dust. It may be necessary to erect a wind screen to protect the area prior to beginning the coating application.

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.)

If applying outdoors, make certain the ambient temperature is between 45°F and 105° F, and RH is under 90%. Make certain that there is no chance of rain for a minimum of 5 hours after the estimated time of completion of the coating process. Also make certain there will be no additional return of morning dew to make the surface damp again before it has had a chance to dry for at least 5 hours.

2. ROLLING OR BRUSHING

Technically this can be done but it is not recommended. Likely to leave brush marks or lines from the roller.

3. WIPING

Get a microfiber covered sponge and wipe on to the surface. This will leave an extremely thin coating and you will likely have to do multiple coats to get to a 0.3 mil thickness.

4. INTERRUPTION OF WORK

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

C. CLEAN UP

Clean tools and flush equipment with acetone at least twice immediately after application.

IMPORTANT - once coating is dry the tools will not clean up with acetone or any other solvent.



COVAL ANTI-GRAFFITI

Technical Data Sheet

3/3

www.covaltechnologies.com

D.STORAGE

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

If you have excess coating remaining in a container, we recommend

1. Put a nitrogen blanket on the top of the remaining liquid in the container or
2. Move the remaining coating to a smaller container with as little air/oxygen in the container as possible. Store in cool dry location. Do not store solvent based products in sun or in sun heated vehicle as overly heated product can turn dark in color and remain tinted when applied. The coating should be very thin and clear, if you see that it has changed viscosity and/or color then that coating has expired (oxidized) and should not be used.

V.CARE AND MAINTENANCE

To remove graffiti, use a mild detergent, then rinse with fresh water. Although Coval Anti-Graffiti is scratch resistant, it is not scratch proof.

Do not use abrasive cleansers or abrasive scouring pads on the coating. On porous surfaces, such as split face block, spray a mild detergent, then use a nylon bristle brush to clean completely into all the pores. This process may require repeating a couple of times to get into those tough spots. An 800 PSI (low pressure) power washer may also be used.

Avoid using high pressure power washers, as repeated use of this method will eventually break down the coating. If the Coval Anti-Graffiti coating is damaged, lightly sand the surface of the coating (not the substrate) with 220 grit sandpaper being careful not to disrupt the substrate. Then reapply the coating. If vandalized with graffiti prior to completion of the 7-day curing time simply wait to clean until the 8th day.

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.