



COVAL VINYL COAT

Technical Data Sheet

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www.covaltechnologies.com

Coval Vinyl eliminates stripping and waxing for a beautiful floor.

I. PRODUCT DESCRIPTION

Coval Vinyl is a single component, thin film, chemical and scratch resistant coating for vinyl flooring products. It is designed as a topcoat over Vinyl Primer, or directly to vinyl flooring products.

CAUTION: Coval Coatings are professional grade coatings and should only be applied by experienced professionals. **Coval Vinyl** is a completely new kind of hybrid crosslinking coating. The extreme crosslinking is the science that allows the coating to be so hard and durable, yet so thin. As it cures, the technology creates a high surface tension which in turn gives the coating extreme hardness.

II. RECOMMENDED USES

- A. Vinyl Composition Tile (VCT)
- B. Luxury Vinyl Tile (LVT)
- C. Vinyl Plank
- D. Vinyl Sheet Goods
- E. Vinyl Cove Base

The best practice is to apply enough coating to "wet-out" the surface and leave it to dry. Do not exceed 4-5 mils, wet film thickness.

III. PRODUCT CHARACTERISTICS

A. PROPERTIES

- 1. Color: Clear, or clear to slight amber (depending on tempera-ture and humidity). Always dries clear.
- 2. Finish: Semi-Gloss 40-60% - one coat, Glossy 60-80% - two coats
- 3. Vehicle Type: Solvent Base
- 4. Flash Point: (C Penskey-Martens closed cup) -9°C/15°F
- 5. Specific Gravity: .81-.83
- 6. Non-breathable

B. DRY TIME

- 1. Drying Time is based on 50% RH, @70°F: (PCS is a moisture cured coating and higher humidity will shorten drying time)
- 2. Touch Dry: 2-4 hours
- 3. Foot traffic allowed in 4-6 hours, heavy traffic allow 24 hours
- 4. Forklift Traffic: 24 hours minimum
- 5. Hot Tire Resistance: 72 hours
- 6. Dry to Recoat: Coval Coatings are designed to give excellent performance with a single coat. If recoating is necessary, wait for a minimum of 24 hours. It may take longer due to low humidity.
- 7. Full Chemical Resistance Cure: 7 days

C. SPREAD RATE PER COAT (recommended)

Wet mils: 4-5 mils

Dry mils: 0.20-0.30 mils

Coverage Rates 1st Coat

| Surface | Sq. Ft./gal Coverage |
|-----------------------------|----------------------|
| VCT with Coval Vinyl Primer | 300 |
| LVT | 350 |
| Vinyl Sheet Goods | 350 |
| Vinyl Cove Base | 350 |

****Coverage rates will vary depending on substrate and porosity****
An additional 50-150 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

1. 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, heavy duty cleaner/degreaser, steam cleaning, or mechanical removal. Remove any wax or other sealers prior to installing **Coval Vinyl**.

2. TEST AREA

- a. When using **Coval Vinyl** 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 vinyl flooring surfaces and the various methods of application and environments, different reactions may occur. Once satisfied, work can begin.
- b. There will be a slight enhancement or change in appearance from the natural surface when using **Coval Vinyl**. It will depend on the color and texture of the vinyl flooring.
- c. If ever in doubt about a coating, TEST it first.



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B. GENERAL

1. VCT floors

- Apply two coats of Vinyl Primer to the tile with a microfiber mop and allow to cure for two hours. Apply in same way as a standard floor finish. Each coat takes 20-30 minutes to dry.
- The advantage of using Coval Vinyl Primer is to fill the pours of the VCT and build a slight layer on the surface of the tile, before applying **Coval Vinyl**.

2. Vinyl Plank or other vinyl floor types

- Apply the coating directly to the surface with a Coval Sprayer or an acetone rated pump sprayer.
- These products already have a factory sealer applied to them so they will not require a primer.

3. Vinyl Cove Basesmaller

- Coval Vinyl** bonds with vinyl cove base, and it is recommended to clean and seal it during the floor application.
- This yields a high gloss and easy to clean cove base for the life of the floor.

4. All Surfaces

- Coval Vinyl** is applied with an acetone pump sprayer.
- When possible, use a Coval Acetone Sprayer. Only use a solvent resistant spray system rated for Acetone.
- With the Coval sprayer, use 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 Tee Jet Brown hollow cone tip (TX-VK10/12) to spray larger areas.
- Maintain a consistent 30-35 PSI air pressure on the sprayer by pumping regularly.
- Sprayer should point down directly and be held 8-12" above the ground.
- With either spray tip used, always mask or shield off any adjacent surfaces to keep them free of overspray.
- WARNING:** There must be positive fresh air and exhaust when applying indoors.
- The odor of the solvent will dissipate quickly after the application when doors and windows can stay open during and after application.
- To start spraying, hold the tip square to the surface being coated at 12" - 16" above the floor.
- Apply no more than 4-6 mils wet film spraying back and forth with a 10 percent overlap pattern.
- This product should spray on evenly and never allow puddling.
- Be careful not to apply too thick or allow the product to puddle as this will cause too much surface tension and can bend loose tiles.
- DO NOT EXCEED a 10 minute wet-edge. Use defined breaks in the floor to maintain a manageable wet-edge distance. Long wet edge applications require multiple applicators to install the coating fast enough before it starts to tack up. Always return to the starting position of each row to begin a new row so that it starts at the oldest point.

C. STORAGE

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

- 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
- Move the remaining coating to a smaller container with as little air/oxygen in the container as possible. Use only HDPE containers.
- 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.
- Shelf life: 12 months
- Store in temperature-controlled environment not to exceed 80°F.

V. CARE AND MAINTENANCE

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

VI. SAFETY AND ENVIRONMENTAL

- INDOORS, TURN OFF AND EXTINGUISH ALL PILOT LIGHTS OR OPEN FLAMES IN THE BUILDING.**
- 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.

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