



# Coval Molecular Coatings

1391 Skillman Lane, Petaluma CA 94952

## WOOD COAT

### DATA SHEET

#### DESCRIPTION

Coval Wood Coat is a 2 part quartz coating designed to protect wood furniture, cabinetry, decorative moldings and architectural elements. Coval Wood Coat is a top coat applied over other wood stains and finishes as the final layer of protection. Available in a gloss or satin finish, it is ideal for kitchens cabinetry, bar tops, restaurant tables and chairs, window frames, decorative moldings, outdoor wood furniture, boat rails and bright work in harsh environments.

#### SURFACE

Any wood finish requiring protection from extreme conditions. Cabinetry, wood furniture, wood moldings, boat rails and bright work, wood bar tops, tables, window frames.

#### SOLUTION

Acid etching and water spots from food and beverage spills, salt air and sea water, UV damage, graffiti, bird & animal waste damage, and moisture.

#### CHARACTERISTICS

Color: Clear  
Finish: Gloss or Satin  
Vehicle Type: Solvent Base  
Flash Point: (C Penskey-Martens closed Cup) -9C/15F  
VOC: less than 100 g/L  
Weight per Gallon: 7.36 lb  
Non-breathable.  
**REQUIRES PART #B CATALYST**

#### SPREAD RATE

Recommended Spread Rate per coat:  
Over Varnish, and Urethanes  
Wet mils: 3.0-4.0  
Dry mils: 1.8-2.5

#### COVERAGE

Coverage: approximately 400-525 sq ft/gal  
Coverage will vary depending on the porosity and texture of the substrate and application method.

#### SURFACE PREPARATION

Coval Wood Coat is designed to be a final clear topcoat that protects finished wood. It is designed to be applied over sealed stained and finished wood surfaces that have a coat of urethane, varnish, or polyurethane.

Surface must be clean, dry, and in sound condition. On newly finished surfaces lightly sand with 220 grit sandpaper or #000 steel wool, and tack cloth off any remaining dust. On older existing surfaces remove all oil, dust, grease, dirt, and other foreign material using [Coval Step#1 Cleaner for Painted Surfaces](#). Then lightly

sand and repair any worn or damaged areas and refinish those. Allow to dry and cure then lightly sand with 220 grit sandpaper or #000 steel wool, tack cloth off any remaining dust.

#### APPLICATION INSTRUCTION

##### Test Area

Test Coval Wood Coat on a finished sample to ensure adhesion and determine that the desired look is achieved. There will be a slight enhancement or change in appearance of the finished wood.

Coval Wood Coat as with any fine finish look is always best applied by spraying, however it can be applied by brushing or rolling methods, depending on the configuration of the piece, the location and the desired finish. With all methods of application, always mask off any adjacent surfaces to keep them free of drips or accidental coating. 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. Make certain there will be no additional morning dew to make the surface damp again after it has been applied for at least 5 hours.

##### Spraying

Coval Wood Coat is a 2 component product requiring **PART#B CATALYST** When surface preparation is complete and surface is dry and free of dust, Shake the container of Coval Wood Coat thoroughly as the nano particles will sink to the bottom, these need to be re-suspended in order for proper performance of the coating, then pour the desired amount into a clean container large enough to allow for an equal amount of the Coval Catalyst to be added. Then pour an equal amount of the Coval Catalyst into the container with the Coval Wood Coat. Stir both components together thoroughly. Approximately every 15-20 minutes re-stir to re-suspend the nano particles during the coating process. Using a high volume, low pressure (HVLP) spray gun with an approximately 1.4 size tip and the pressure set at approximately 25 psi. On a separate piece of cardboard first spray a test pattern to achieve a 6" to 8" elongated pattern approximately 1 1/2" wide in the middle and enough fluid to cover but not puddle. Once this spray pattern is achieved on the test cardboard, spray a thin coat onto the surface in a cross-pattern; left to right, then up and down. This will provide sufficient coverage and will help prevent holes in coverage. Desired wet film thickness (WFT) is approximately 3.0 to 4.0 mils. Only apply one coat.

When spraying outdoors, make certain there will be no rain for at least 5 hours after your 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 your HVLP. It can also contribute to contamination of the finish with blowing dust. It may be necessary to erect a windscreen to protect the area prior to beginning the coating application.

To spray small pieces or tight locations you can use a "Preval" sprayer. This is a small disposable sprayer that can spray any liquid and holds approximately 6 oz, which is ideal for touch ups as well. Available in the paint department of major home improvement stores, or major paint store chains.

**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 overspray dust. Tented and enclosed areas require to be positively supplied with fresh air and have ventilated exhaust to the outside using fans. Never spray near any open source of ignition such as pilot light flames, or anything that may spark, as this may cause ignition and explosion of the fumes and vapors.

## Rolling

Coval Wood Coat is a 2 component product requiring **PART#B CATALYST** When surface preparation is complete and surface is dry and free of dust, Shake the container of Coval Wood Coat thoroughly as the nano particles will sink to the bottom, these need to be re-suspended in order for proper performance of the coating, then pour the desired amount into a clean container large enough to allow for an equal amount of the Coval Catalyst to be added. Then pour an equal amount of the Coval Catalyst into the container with the Coval Wood Coat. Stir both components together thoroughly. Approximately every 15-20 minutes re-stir to re-suspend the nano particles during the coating process. Use an ultra smooth high-density white foam roller available at most major home improvement stores. Pour the mixture into a roller pan and completely saturate the roller with the coating. Apply a liberal coat in a cross-pattern; left to right, then up and down as quickly as possible as coating dries fairly quickly. Do not press down on the roller; just lightly use it to spread the coating. Desired wet film thickness (WFT) is approximately 3.0 to 4.0 mils.

## Brushing

Coval Wood Coat is a 2 component product requiring **PART#B CATALYST** When surface preparation is complete and surface is dry and free of dust, Shake the container of Coval Wood Coat thoroughly as the Nano particles will sink to the bottom, these need to be re-suspended in order for proper performance of the coating, then pour the desired amount into a clean container large enough to allow for an equal amount of the Coval Catalyst to be added. Then pour an equal amount of the Coval Catalyst into the container with the Coval Wood Coat. Stir both components together thoroughly. Approximately every 15-20 minutes re-stir to re-suspend the nano particles during the coating process. Select the appropriate sized brush width based on the surface area being coated. Using only a good quality China bristle brush, apply mixture liberally in a cross-pattern; left to right, then up and down. To obtain the best results, do not overwork the coating as it dries fairly quickly. Do not bear down with the brush. Use light strokes using the tip of the brush to smooth out the coating. Desired WFT is 3.0-4.0.

## DRY TIME

Drying Time (@ 77 F, 50% RH):  
Drying time is temperature and humidity dependent.  
Touch: 2-3 hour  
Through: 3-5 hours  
Dry: 24 hours  
Full Cure: 7 Days

## INTERRUPTION OF WORK

It is not advisable to stop application in the middle of a singular surface. If you need to stop use a corner or visible joint so finish is as seamless as possible.

## CLEAN UP

Clean tools and flush equipment immediately after application with acetone thoroughly before product dries. Once the coating is dry acetone will not remove it.

## CAUTION

Always wear OSHA approved 1910.134 and ANSI Z88 2 respiratory protection. Fresh air and exhaust are required in enclosed work areas. If inhaled, remove affected person to fresh air. Seek immediate medical attention 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.

## CARE & MAINTENANCE

Use warm water or if desired, **Coval Safe Clean** then rinse with fresh water and dry. Always wipe up spills and standing water as soon as possible to properly care for the coating. Do not use abrasive cleansers or abrasive scouring pads. Wood Coat does not require any waxing or protection. Graffiti can be removed with **Coval Safe Clean**. If coating is damaged simply sand with 220 grit sandpaper tack cloth clean and re-apply per application directions.