



Technical Bulletin 208 Convoy II Non-Slip Coating

IMPORTANT: This bulletin should be read carefully by the person performing the application of Convoy II.

Convoy II is an economical non-slip floor and deck coating that is based on a single component, durable acrylic latex polymer. This product provides non-slip protection on concrete, wood, and metal surfaces while offering the advantages of being water thinned. This water-borne coating is completely non-flammable and releases no solvent vapors into the air. Convoy II dries quickly (4 hours) and can be used in areas which cannot be closed off for long periods of time. This product will also perform well when applied over damp surfaces, and is USDA accepted.

SURFACE PREPARATION

Proper surface preparation is the single most important factor in the success of a Convoy II application. No matter what type of surface, it must be perfectly free of dirt, oils and grease.

Removing Dirt, Oil and Grease

Minor concentrations of oil and grease can be removed with a solution of our #910 Washing Compound (or tri-sodium phosphate - TSP) and water. Mix 8 oz. of TSP to each gallon of warm water. One gallon of solution should clean about 200 square feet of surface. After cleaning, test with scotch tape. If it sticks, the surface is oil free.

Oil Soaked Concrete

Whenever concrete is soaked with oil (i.e., garage floor) it is necessary to remove all oil prior to applying Convoy II. Removing only the oil on the immediate surface is temporary as the oil beneath the surface will continue to migrate upward, creating an adhesion barrier. Oil soaked concrete can be cleaned using our #850 Oil Gone or equivalent oil remover. It may be necessary to soak the surface several times with Oil Gone mixed with sawdust to draw the oil to the surface. When a blotter (paper towel, etc.) can be weighted down on the floor overnight without discoloration, oils have been sufficiently removed.

Preparation of Concrete (including acid etching)

Remove dirt, grease and oils as described above. At that point it is best to acid etch concrete. Acid etching with muriatic acid will open millions of tiny pores and permit penetration of Convoy II, greatly improving adhesion.

To acid etch the surface, mix one part muriatic acid with one part water in a plastic bucket. (Note: To avoid eye injury, always pour acid into water. Never pour water into acid. Always wear protective eyewear.) Liberally brush the acid solution on the surface. The acid will bubble on the concrete when applied. When the effervescence ceases, rinse the solution off with clear water. The surface should feel like fine sandpaper when properly etched. Then wash the etched surface with a solution of #910 Washing Compound (tri-sodium phosphate) to neutralize any remaining traces of acid. Rinse off with clear water and the concrete is in perfect condition to apply Convoy II.

Preparation of Metal Other Than Aluminum

Remove all dirt, oil and grease. Remove rust with #970 Rust Remover. Rust may also be removed with an electric buffer equipped with a coarse garnet sanding disc. After cleaning the metal, the surface should receive one coat of #309 Convoy Metal Primer prior to the application of Convoy II. If metal surface is polished or unusually slick, it is difficult for the primer to secure adequate adhesion. For best adhesion, these surfaces should be marred or scratched with an electric sander equipped with coarse carborundum type paper. Be sure all metal dust is brushed or vacuumed away prior to application of primer.

Preparation of Aluminum

Preparation of aluminum is similar to metal. After thoroughly cleaning and degreasing, aluminum should be scarified by sanding with heavy grit paper. This will help create a strong mechanical bond for the primer.

APPLICATION OF CONVOY II

Convoy II non-skid coating can be applied by brush or roller. The easiest method of application is to use a 9" roller with a 1/4" cover. Pour a small amount on the surface to be treated and "roll it out". Be sure to adequately cover the surface. Some surfaces (bare, porous concrete, etc.) may require two coats.

Application on Concrete

Convoy II may be applied to concrete without any primer. However, on most concrete, two coats of Convoy II should be applied.

Application on Wood

One coat of #310 Wood Primer should be applied to bare wood before applying Convoy II.

Application on Metal Other than Aluminum

After cleaning the metal, the surface should receive one coat of #309 Convoy Metal Primer prior to the application of Convoy II.

CONVOY



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Application on Aluminum

After cleaning, the surface should receive one coat of #309 Metal Primer prior to application of Convoy II

Application on Previously Painted Surfaces

Convoy II will adhere to other waterbase paints which are well bonded to the substrate. When the old paint is peeling or scaling, then all loose or poorly bonded paint must be removed. Remove old loose paint (slightly peeling) with an electric buffer equipped with a coarse sanding disc. Where widespread peeling exists, a complete paint removal job is recommended. Where paint remover or a caustic solution is used, the surface must be scrubbed with #910 Washing Compound (tri-sodium phosphate) as described earlier, to remove cleaning contaminants. Any bare surfaces should be appropriately primed.

PHYSICAL DATA

Base: One component water-borne acrylic
Coverage: 100 - 150 square feet per gallon
Set to touch: 1 hour
Dry Time Before Traffic: 4 hours at 72° F (overnight, if cooler)
Thinning and Cleanup: Water
Number of Coats: One or two
Induction Time After Mixing: None
Pot Life After Mixing: Indefinite
Recoating Time: 4 hours (if necessary)
Flash Point: 200° F
Viscosity Krebs-Stormer: 90 - 100 K.U.
Packaging: Quarts, Gallons, 5 Gallons, Special Order
Can Stability: Indefinite
Abrasion Resistance: Very Good
Slip Resistance: Excellent
Colors:
#330 White
#331 Gray
#333 Yellow
#334 Green
#335 Tile Red
#336 Black
#338 Orange
Primer: #309 Metal Primer (Metal & Aluminum)
#310 Wood Primer

CAUTION!

Do not take internally. Close container after each use. Keep away from heat and open flame. Avoid prolonged contact with skin and breathing of vapor. Areas of body or clothing on contact with uncured resin and/or catalyst should be thoroughly cleaned with solvent and washed with soap and water immediately. Use only where there is adequate ventilation. KEEP OUT OF THE REACH OF CHILDREN.

Information herein given has been accumulated through many years of experience and verified by our technical personnel and is based upon tests believed to be reliable, but RESULTS ARE NOT GUARANTEED.

NOTE: KELLEY TECHNICAL COATINGS, INC. makes no implied warranty of merchantability, no implied warranty of fitness for a particular purpose and no other warranty, either express or implied, concerning its products.

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