



**Kelley Technical Coatings**

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## Technical Bulletin 204 Super "X" Convoy Non-Slip Coating

**IMPORTANT:** This bulletin should be read carefully by the person performing the application of Super "X" Convoy.

Super "X" Convoy is a durable two-component epoxy formulation designed to prevent dangerous slipping accidents. Super "X" Convoy is a one coating high solids concentration that lives long under heavy foot and vehicular traffic while providing 100% resistance to the severest acid, alkali, and chemical conditions. Super "X" Convoy is also unaffected by steam, moisture, and continuous submersion.

In addition, Super "X" Convoy can be rolled on virtually any surface where a slipping hazard exists, although metal surfaces must first be primed. Super "X" Convoy can also be applied over some previously painted surfaces. Super "X" Convoy is USDA accepted.

### GENERAL INFORMATION

Super "X" Convoy is a two-package system. All Convoy containers are "short filled" to leave space to add the catalyst, or hardening agent. The smaller can contains the catalyst. To each quart can of Convoy base, add the 1/4 pint can of catalyst. To each gallon of Convoy base, add the one pint can of catalyst. Because of the high solids nature, it is best to mix the catalyst into the base using an electric drill with a paint mixing attachment. Mix thoroughly until all traces of the catalyst disappear, and then for three more minutes. The "pot life", or time before hardening, is approximately 4 hours at 75° F (24° C), so do not mix more than can be used in this period.

Super "X" Convoy can be rolled or brushed. If rolled, use a "frieze" type roller cover or a 1/4" nap roller cover. Do not use a longer nap roller cover. The best method is to pour about one pint on the surface to be coated and roll uniformly. This product should be applied liberally at about 40-50 square feet per gallon. Do not spread too thinly.

DO NOT apply Super "X" Convoy when air or surface temperature is below 50° F.

### SURFACE PREPARATION PROCEDURES

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

#### Removing Dirt, Oils 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. A 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 Super "X" Convoy. 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, oil and grease 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 Super "X" Convoy, 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 (or Tri-Sodium Phosphate) to neutralize any remaining traces of acid. Rinse off with clear water, let dry and the concrete is in perfect condition to apply Super "X" Convoy.

#### 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 completing surface preparation, apply one coat of #219 Epoxy Metal Primer. If the metal surface is polished or unusually slick, it is difficult for the primer to secure adequate adhesion. For best adhesion, these slick 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 sanding, cleaning and degreasing, the surface should be primed with #215 Bonderite Primer.



**Technical Bulletin 204**  
**Super "X" Convoy Non-Slip Coating**  
continued

**APPLICATION OF SUPER "X" CONVOY**

Super "X" Convoy non-skid coating can be applied by brush or roller. The easiest method of application is to use a 9" roller equipped with a 1/4" cover or our textured "frieze" type roller cover. Pour a small amount on the surface to be coated and "roll it out". Be sure to adequately cover the surface to be coated.

**Application on Concrete**

Super "X" Convoy may be applied directly to concrete without any primer.

**Application on Wood**

Super "X" Convoy requires no primer on bare wood surfaces.

**Application on Metal Other Than Aluminum**

After completing surface preparation, apply one coat of #219 Epoxy Metal Primer. Allow primer to dry for 16 hours (24 maximum) before applying Super "X" Convoy.

**Application on Aluminum**

After cleaning and preparing surface, apply one coat of #215 Bonderite Metal Primer before applying Super "X" Convoy to aluminum. Wait 16 hours (maximum 24 hours) before applying Super "X" Convoy.

**Application On Previously Painted Surfaces**

Super "X" Convoy will adhere to some other 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 (or Tri-Sodium Phosphate), as described earlier, to remove cleaning contaminants. Any bare surfaces should be appropriately primed.

**CAUTION! COMBUSTIBLE!**

Keep away from heat and flame. Avoid prolonged contact with skin and breathing of vapor. Close container after each use. Use only where there is adequate ventilation. KEEP OUT OF THE REACH OF CHILDREN.

**SUPER "X" CONVOY PHYSICAL DATA**

Base: Two-component epoxy  
Coverage: 50-60 sq. ft. per gal.  
Set to Touch: 8 hours at 72° F  
Dry Time Before Traffic:  
    24 hours for light foot traffic  
    2 days at 75° - 85° F  
    4 days at 60° - 80° F  
Thinning and Cleanup: #1108  
Number of Coats: One  
Induction Time After Mixing: 20 - 30 minutes, depending on temperature  
Pot Life After Mixing: Average 6 hours depending on temperature  
Recoating Time: Not necessary  
Flash Point: 120° F  
Viscosity, Krebs-Stormer: 110 -120 K.U.

Packaging:  
    Quarts & Gallons  
    5 Gallons  
    Special Order  
Can Stability: 2 years  
Abrasion Resistance: Superb  
Slip Resistance: Superb  
Availability:  
    #810 Orange  
    #811 Gray  
    #813 Yellow  
    #818 Tile Red  
    #819 Black  
    #820 White  
    #822 Green

**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.