



EverShield is a clear ceramic like material. Once cured, impervious to common solvents, most acids and can withstand extremely high heats. It will completely seal the surface from moisture and oxygen.

WHAT YOU SHOULD KNOW ABOUT SS EVERSIELD BEFORE YOU START

When the two components of EverShield are mixed together, they will appear like oil and water, not wanting to blend with each other. It make take up to one hour of periodic agitation for the mixture to hydrolyze and become opaque. Remember EverShield has a film thickness of only .0003 inch when cured. You do not need to, nor do you want to apply the product thickly. Picture the microscopic mist from a perfume bottle and strive for that result.

Things to Remember

1. You must have a very clean surface before applying EverShield
2. Wear gloves when mixing and handling EverShield so as not to seal you skin!
3. Apply EverShield at temperatures greater than 70°F and humidity less than 70%.
4. Part B of the mixture is flammable in liquid form
5. Apply in very thin coats
6. **Do not use the mixture after 24 hours, or if it separates.**
7. Applying heat of 120°F to 175°F for about 15 minutes will greatly accelerate the curing process.
8. **Wear a NIOSH approved mask when spraying EverShield so that you do not get ceramic mist in your lungs.**
9. Let EverShield cure five days before using in an abrasive environment.

Surface Preparation

1. All bare metal surfaces should be cleaned of any oxidation by using SS EkoEtch, sand or glass blasting, wire wheel, etc. Wash with SS EkoClean and rinse well with clean water. Blow-dry and coat with EverShield immediately.
2. All surfaces that are not bare metal, such as well cured paint, fiberglass, gel coat, Plexiglass, etc., must be clean of all wax, silicones, oil, & dirt. Wash all surfaces with SS EkoClean, rinse all residue with clear water. It is best to blow dry the surfaces to prevent water spots from forming.
3. For highly polished metals, such as chrome wheels, chrome bumpers and polished aluminum airplanes it is important the you use SS EkoShine polishing compound. This product is especially formulated to brighten metals, and contains no wax to contaminate the surface, and hinder the performance of EverShield. Clean surface thoroughly with lacquer thinner.

Mixing Instructions

1. Mix together by volume: 3 parts A with 1 part B in a clear glass lidded container.
2. Shake or stir this mixture every five minutes until mixture becomes yellowish in color.
3. After mixture yellows, let it stand for one hour before using.
4. **Once opaque, EverShield has a pot life of 12 hours under warm conditions (75-110°F) If kept cool (45-75°F) EverShield with last up to 24 hours. You can extend EverShield's pot life by refrigerating the mixed product in a tightly sealed glass container. Do not use mixed EverShield after 24 hours or if mixture separates.**
5. If mixture has been refrigerated to extend pot life, allow it to return to room temperature before using.

Application of EverShield

EverShield can be applied by spraying, wiping or dipping.

Spraying EverShield

1. See surface preparation for proper cleaning before application
2. Spraying EverShield is the most efficient method of application.
3. Using a gravity feed touch-up gun with a .5mm or smaller fluid tip, or an airbrush, lightly mist on the first coat of EverShield. When the first coat becomes tacky (approx. 15 min.) mist on a second coat. When this coat is tacky a third coat may be applied. A third coat is required if high abrasion qualities are needed.
4. Wear a NIOSH approved mask to keep ceramic mist out of your lungs.

Wiping EverShield (unpolished surfaces)

1. See surface preparation for proper cleaning before application
2. Protect skin by wearing rubber gloves (latex exam gloves work fine) . This will prevent the EverShield from sealing and drying out skin.
3. Using a soft lint free cloth or foam brush, wipe EverShield into the surface.
4. Let stand until tacky (approx 15 min), again apply a 2nd coat.
5. This can be repeated again in 15 minutes, but no more than 30 minutes if a thicker coat is desired for better abrasion protection.

Wiping EverShield (Polished Surfaces)

1. Using a soft lint free cloth, polish the surface area to be coated with Stewart Systems EkoShine.
2. Clean the polished area with lacquer thinner or a solution made of 10% denatured alcohol, 10% white vinegar and 80% distilled water with a very soft lint free cloth. (Do Not Rub Fresh Polished Area With a Paper Towel, as You May Scratch the Surface You Are Polishing) When the polished metal is clean you will no longer see black (indication of surface oxidation) on your polishing cloth.
3. Apply EverShield using a foam brush or a very soft lint free cloth such as a synthetic chamois by wiping the area until well wetted. Let sit for five minutes, then using the dampened part of the cloth, polish the surface until dry. If you see hazing or discoloration, polish it clean with more EverShield until it clears up. Hazing and rainbowing are usually caused by improper cleaning. If additional coats are desired repeat application in 15 minutes. EverShield will be dry to the touch in about 8 hours after initial application depending on temperature and humidity.
4. After EverShield is dry to the touch you may accelerate the curing process by wiping on EverShield Curing Rinse. See Curing EverShield.

Dipping into EverShield

1. See Surface preparation for proper cleaning before application.
2. Submerge clean part into the EverShield mixture. Remove the coated part from the EverShield mixture and let any excess material drip off.
3. EverShield has high surface tension and it may be necessary to wick off excess EverShield accumulating at the bottom of the part by touching with a dry paper towel
4. Parts that are dipped may be placed on a clean, absorbent cloth or towel to wick off excess EverShield.

Curing EverShield

1. Because EverShield is a catalyzed material it will dry and cure on it's own.
2. Depending on the temperature, total curing will take up to 5 days at 45°F to as little as 4 hours at 100°F.
3. If accelerated curing is needed, heating the part to 150°F for twenty-five minutes works very nicely.
4. If heating of the EverShield coated surface is not possible or practical you may still accelerate the curing process by applying the options EverShield Curing Rinse.
5. To apply Curing Rinse, the EverShield coated surface must be dry to the touch, This can take up to 8 hours. EverShield Curing Rinse may be applied by hand wiping or spraying. Curing Rinse will dull finish to a satin sheen.
6. Let EverShield Curing Rinse stand for 1 - 2 minutes before wiping off with a clean dry towel or fresh clean buffing pad.

Clean-Up

Clean equipment with lacquer thinner, once catalyzed EverShield will not clean up with water.