

| TYPE                                | DRY FILM THICKNESS                                | APPLICATION METHOD                          | THINNER                                | CLEAN UP               | DRY TIME            |                             |                           |
|-------------------------------------|---|---|--|------------------------|---------------------|-----------------------------|---------------------------|
|                                     |   |   |  |                        | TACK                | USE                         | FULL CURE                 |
| Clear<br>Inorganic Reacted Siloxane | WFT =<br>1 to 1.5 mils<br>DFT =<br>6 to 8 microns | Spray,<br>Short Nap Roller,<br>Pad or Brush | MicroKleen™<br>AD1 -919<br>(upon need) | MicroKleen™<br>AD1-919 | 1 Hour<br>(average) | 4 to 6 Hours<br>(light use) | 5 Days<br>(75° F, 50% RH) |

**DESCRIPTION:** MicroGuard® AD95 Clear is designed to protect bare stainless steel, aluminum, brass, bronze, copper and other non-ferrous alloys from the damaging effects of ambient or industrial chemical exposure, acid rain, salt spray coastal environments and UV radiation. MicroGuard® AD95 deeply penetrates stainless steel and non-ferrous metal indices, blocks electrolytes and helps arrest the formation of corrosion. This product is a clear finishing coat and due to its hydrophobic properties, no other paints or coatings should be used to topcoat AD95.

- **Stainless Steel**
- **Aluminum**
- **Copper Alloys**
- **Non-Ferrous Metals**

**WHERE TO USE:** MicroGuard® AD95 can be applied to stainless steel totes or tanks, hoppers & equipment, commercial kitchen stove hoods, elevator doors, walk-in coolers, hand rails, polished and unpolished non-ferrous decorative metals; brass, bronze, aluminum, copper, etc;  
Do not coat over tarnish. Never recommended for bare ferrous metals.

**SURFACE PREPARATION:** Adsil manufactures and distributes surface specific cleaners and conditioners. For cleaning bare stainless steel, aluminum and/or unpolished non-ferrous metals, use MicroKleen™ PLC-1 Industrial Cleaner & Degreaser, reduced 1 part cleaner to 1 part clean water. For cleaning polished metals use PLC-1 reduced 1 part cleaner to 20 parts clean water.

In all cases, the surface to be finish coated needs to be clean, dry and free from dirt, oily grime, processing oils, loose oxidation, mildew spores, corrosion, tarnish or any other surface contaminate.

Liberally flush the surface with the PLC-1 cleaner and allow it to “work” for 3 to 5 minutes, then, scrub with a fine Scotch Brite™ Pad (white) with the metal grain and rinse thoroughly with clean water. Repeat if necessary. Wipe down surface with MicroKleen™ AD1-919 Spray & Equipment Cleaner (IPA) using a Micro-fiber™ cloth. Always wear latex gloves and eye protection.

If tarnish is present, clean the surface with MicroKleen™ PLC-Acid Cleaner/Neutralizer. Scrub the surface with a non-aggressive Scotch Brite™ Pad until all signs of tarnish have been removed. Rinse thoroughly with water. Wipe with AD1-919 and allow to air dry completely. Wear protect goggles, respirator and rubber gloves when working with acid solutions. Read all MSDS instructions carefully.

**Allow the surface to dry completely before installation of AD95.**

**MIXING INSTRUCTIONS:** MicroGuard® AD95 is a three-component material and must be properly mixed for curing to occur. This product is packaged, in quart kit form, with separate short filled containers for the **A, B & C** components.

**For proper mixing of 1 Quart Kit batch sizes:**

1. Using a standard lab magnetic mixer, pour the Component **B** liquid into the Component **A** plastic container. Drop in the magnetic stirrer, place the cap loosely on the container and mix for 15 minutes. An exothermic reaction will occur. This is normal
2. Pour the Component **C** liquid into the admixture of Components **A & B**. Cover the container and blend for 15 additional minutes.
3. Remove the mixing stirrer, re-cap and seal the container and set aside for 30 minutes to chemically induct. Set aside in a location away from heat sources or direct sunlight. The usable pot life of mixed material is 4 to 6 hours at normal ambient conditions of 75° F & 50% RH.

**PRODUCT YIELD:** MicroGuard® AD95 Corrosion Protector will yield 300+ ft<sup>2</sup> per quart kit, depending on method of application and surface profile. Actual field conditions will dictate the final yield. In the rare occasion when two coats are to be applied, allow 5 days dry time between coats. Thoroughly dull surface gloss by sanding the first coat using fine sandpaper (220 to 440 grit) before installation of the second coat of AD95. Remove sanding dust between coats.

**APPLICATION:** MicroGuard® AD95 Corrosion Protector Clear can be applied by airless, conventional, LVLP, HVLP, electrostatic spray, short nap roller, pad or brush methods. Wear respirator and eye protection devices. Read MSDS carefully.

**Conventional** – Select an air compressor that can deliver a minimum of 3 CFM @ 90 PSI. Use a dual regulated pressure pot with a good production gun (Binks, Kremlin, Devilbiss) Set the fluid (pot) gauge at 8 to 10 PSI and the air pressure gauge at 12 to 15 PSI (working pressure). Close down the fluid needle adjustment screw, on the back of the gun, to its tightest position, then, turn the adjustment screw 2 turns counter clockwise. Check the spray pattern and make minor adjustments to the fluid & air needles, as needed.

**Airless** – For airless sprayer installation, it is best to mount a glycerin (liquid filled) pressure gauge between the pump and fluid hose to monitor pump pressure. Seat a 311 to 611 tip in the nozzle housing. Run the lowest pump pressure possible, while still maintaining a good fan pattern free from “tailing”. Typically, this is between 600 and 650 PSI. Spray in a cross-hatch pattern in order to avoid skips and holidays. Always apply in a thin and even film deposit and never exceed 1.5 mils wet film thickness.

**Note:** In all cases when spraying AD95, mask, shield or protect any fixtures or adjacent areas not to be finish coated. Move all automobiles or vehicles away from the spray area. Check wind conditions.

**Roller/Pad** – Use a short nap mohair or lambs’ wool roller cover/pad with a solvent resistant core. Pick up a small amount of material into the cover/pad and slowly apply; finish with a series of one directional roller strokes. Avoid over working the material and avoid working back into partially “set” material. Maintain a wet line. Work to natural breaks.

**Brush** – Use a natural hair bristle or nylon brush. Apply using a series of one directional brush strokes. Avoid over brushing the product. Maintain a wet line.

**CLEAN UP:** Application tools and spray equipment should be cleaned using MicroKleen™ Spray & Equipment Cleaner (IPA) AD1-919. Flush the pump, hose, pot and gun thoroughly until all AD95 residue has been cleaned from the spray system. Remove the tip, nozzle and fluid needle parts and clean thoroughly before reassembling the gun.

Clean drips, spills and over spray by saturating a cotton cloth with MicroKleen™ AD1-919 and wiping the affected area before coating dries to touch. Dispose of alcohol saturated cloths in a safe manner.

#### **ASTM LAB TESTING:**

ASTM D 4060 Taber Abrasion (CS-10 Wheel @ 1000 Cycles) – 12.5 mg loss

ASTM G 21 Fungal Growth – Zero (0) Growth

ASTM B 117 Salt Chamber – 6,000+ hours (aluminum)

**Note:** All MicroGuard® product performance testing has been accomplished by accredited, third party testing laboratories and in full compliance with each particular ASTM Testing Protocol.

**POST CLEANING:** For most general post cleaning maintenance requirements and in order to ensure the best cleaning results without damaging the MicroGuard® AD95 film, use MicroKleen™ PLC-20 MAINTAIN ph Neutral Cleaner diluted 1 part PLC-20 Cleaner to 10 parts clean water. For difficult dirt and grime removal, incorporate the use of a soft bristled scrub brush or sponge.

Liberally flush the surface with MicroKleen™ PLC-20, allow the diluted cleaner to “work” for 2 to 3 minutes, then, rinse thoroughly with clean water. Repeat as necessary.

**Do not use harsh or abrasive alkaline cleaners for post cleaning maintenance.**

**CURING INFORMATION:** MicroGuard® AD95 Corrosion Protector cures by cross-linking reaction. Whereas this protective clear dries to touch in 1 hour, full cure is not realized for 5 days at 75<sup>0</sup> F & 50% RH. Avoid premature cleaning of the film or exposure to chemicals or heavy use for a minimum of 5 days following application.

MicroGuard® AD95 Corrosion Protector **does not cure** when ambient or surface temperatures drop **below 50<sup>0</sup> F**. Do not mix or apply product when ambient or surface temperatures are, or will be, below 55<sup>0</sup> F throughout the 5 day curing cycle.

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## **Advanced Siloxane Technology – Extreme Performance Product**

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