

**EXTREME PERFORMANCE PRODUCT
FOR PROFESSIONAL USE ONLY**

Adsil, Inc.

TECHNICAL DATA SHEET TS-27

MicroGuard® Corrosion Protector Clear Gloss Treatment AD95

TYPE	FILM THICKNESS	APPLICATION METHOD	THINNER	CLEAN UP	DRY TIME		
					TACK	USE	CURED
Clear Inorganic Reacted Siloxane	WFT = 1 to 1.5 mils DFT = 6 to 8 microns	Spray, Short Nap Roller or Brush	MicroKleen™ AD1-919 (upon need)	MicroKleen™ AD1-919	1 hour (average)	6 - 8 hours (light use)	5 - 7 days (full cure)

DESCRIPTION: MicroGuard® AD95 Clear is designed to protect bare stainless steel, aluminum, brass, bronze and copper from the damaging affects 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.

- **Stainless Steel**
- **Aluminum**
- **Copper Alloys**
- **Non-Ferrous Metals**
- **Ornamental 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. Not 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, form oils, loose oxidation, mildew spores, corrosion, tarnish or any other surface contaminate.

Apply the properly diluted PLC-1 cleaner using an Adsil Pump & Wand Spray System, or for larger surface areas, use a power washer with siphon soap injection. Liberally flush the surface with the cleaner and allow it to “work” for 3 to 5 minutes, then, scrub with a fine Scotch Brite Pad and rinse thoroughly with clean water. Repeat if necessary. Wipe down surface with MicroKleen™ AD1-919 Spray & Equipment Cleaner (IPA) using a lint free cloth. Wear latex gloves and eye protection.

If tarnish is present, clean the surface with MicroKleen™ PLC-35 Phosphoric Acid Etch & Clean. Scrub the surface with a non-aggressive Scotch Brite Pad until all signs of tarnish have been removed. Wipe with AD1-919 and allow to completely dry. Wear protect goggles and rubber gloves when working with acid solutions. Read all instructions.

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 film formation and curing to occur. This product is packaged, in kit form, with separate containers for Components **A**, **B** & **C**. For proper mixing:

- Pour the Component **A** liquid into a clean, white or clear HDPE 5 gallon plastic bucket, only. Then, pour the Component **B** liquid into the Component **A**.
- Using an Adsil Product Mixer, blend the **A** & **B** components for 15 minutes. Always keep the bucket covered with a ‘V’ cut/notched lid during mixing. Avoid striking the side of the bucket with the paddle while it is rotating. You will notice a moderate exothermic heat reaction as the components are mixed together. This is a normal product reaction.
- Next, add the Component **C** liquid into the admixture of the **A** & **B** components. Again, blend for 15 additional minutes.
- After mixing is completed, cover the bucket with a full lid and allow the mixed material to chemically induct (“sweat in”) for 30 minutes before application. The useable pot life of mixed material is 4 to 6 hours, depending on ambient conditions.

When mixing a single, 1 quart batch, use a standard lab magnetic mixing device with magnetic peanut. Mix in the Component ‘A’ bottle. Follow mixing times precisely, as stated above. Do not deviate from these published instructions.

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

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 ½ turn 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 613 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 500 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 rolling the material and avoid working back into partially “set” material. Maintain a wet line. Work to natural breaks.

Brush – Use a natural hair bristle brush. Apply using a series of one directional brush strokes. Avoid over brushing the product.

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 and nozzle parts and clean thoroughly before replacing onto 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.

PRODUCT YIELD: MicroGuard® AD95 Corrosion Protector will yield 800+ ft² per gallon, depending on method of application and surface profile. Actual field conditions will dictate the final yield. If two coats are to be applied, allow 7 days dry time between coats. Remove surface gloss by sanding the first coat using fine sandpaper (220 to 440 grit) before installation of the second coat of AD95.

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 the 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-1 Cleaner & Degreaser diluted 1 part PLC-1 Cleaner to 20 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-1, allow the diluted cleaner to “work” for 2 to 3 minutes, then, rinse thoroughly with clean water.

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 to 7 days. 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° F**. Do not mix or apply product when ambient or surface temperatures are below 60° F.

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(Revision Date 01/09)

Advanced Siloxane Technology – Preserve, Prolong, Protect

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