

# ac products, inc.

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## AC 940 APPLICATION NOTES

### MAKING SURE THAT THE COATING WILL COME OFF.

The most frequent mistake that people make when using AC-940-BLUE is to apply it too thin. We recommend that you apply AC-940 to a minimum of 20 wet mils or 7 dry mils of protective film. A film of this thickness will offer a good combination of performance and economy. Thicker films will enhance performance and you may determine later that your application will demand more or less than seven mils. The adhesion of the coating to the substrate is the same regardless of thickness. However, the tensile strength of the coating will increase with its thickness. This is why you will be able to easily peel large sheets of coating that are thick but you may have to pick off small pieces of very thin material on the same part.

**Hot Tip:** An inexpensive mesh material may also be imbedded in the coating (base coat-mesh-top coat) to provide an extremely rugged and durable coating. We have found that vinyl coated fiberglass window screen works very well and can be incorporated with no need to dry between coats.

### STORAGE OF COATED PARTS OR MOLDS OUTDOORS.

One of the problems that may be encountered with this type of product is exposure to rain or other sources of moisture. AC-940, like other waterbased products, takes time (up to several weeks or more) to develop good water resistance. For example, when a car is repainted the shop will tell you not to wax the car for 30 days because the paint is still curing. If the cured (dry to the touch) coating is exposed to water too soon, it will reabsorb water, become soft and may blister. If this should occur, allow the coating to dry out undisturbed and it will readhere and regain its original properties. Recently applied coating that has been subjected to severe exposure (under water or driving rain) for a prolonged period of time will most likely lift off the part. For this reason we do not recommend transporting items coated with AC-940 on an open truck when they may be exposed to rain or other sources of moisture.

Conversely, when the coating has had sufficient time to develop good water resistance, it will not be affected by the water but it is still not waterproof. Always allow the coating sufficient time to evaporate any absorbed water before removal as this residual moisture will increase the adhesion.

AC-940 does have very good UV resistance. We have seen surfaces coated with AC-940-BLUE that were left exposed to direct sun and rain in Southern California for two years and the AC-940-BLUE protected the glossy surface and remained hand peelable.