

## **Mixing, Handling, and Application instructions MF-500 Microwave Absorbing Coating**

The following procedures are intended as a guide for the application of MF-500 and are strongly recommended. Any deviation from these procedures will be done at the customer's risk.

- 1 Safety Precautions required for the handling of MWT's MF-500 Microwave Absorbing Coating must be followed. An MSDS (Material Safety Data Sheet) is available. Note that while liquid, the material contains Volatile Organic Components (VOCs).
- 2 Thoroughly agitate the coating solution for a minimum of 5 minutes using either a paint shaker or high speed stirrer. If separation of coating solution is observed after a period of time, repeat the agitation procedure.
- 3 If thinning of MF-500 is required for your application, add mineral spirits slowly while agitating until the solution is the proper viscosity for your particular need. This paint is thick and should not be thinned for optimum results
- 4 Apply the material to a clean surface free of rust, scale, grease or dirt. Material may be applied by either spray or brush. If brushes are used, brush in alternating directions between coats
- 5 MF-500 must be applied in a series of coats. The thickness of successive coatings can be varied from 2 to 3 mils per application (.002 to .004 inches).
- 6 As MF-500 is a polyurethane dispersion, each coat must be dry before the next coat can be applied. Drying time can be accelerated by ovens or infrared lamps, though the base temperature must be kept below 140 F. Do not apply to a surface whose temperature exceeds 110 F as the finish of the surface will be adversely affected. Drying time will vary from 30 minutes to one hour depending upon the thickness of the application, the drying temperature, and the humidity
- 7 Repeat applications until the desired thickness is obtained
- 8 Full curing of the material requires 24 to 48 hours. Note that the center frequency of the maximum attenuation may shift upward as the coating is cured.
- 9 The MF-500 container should be sealed when not in use. Simply repeat the agitation step before each application
- 10 MF-500 should provide an excellent, smooth surface when properly applied. After desired thickness is obtained, a 2 to 3 mil coat of latex paint may be applied as a top coat to seal against moisture intrusion and for aesthetic appearance.
- 11 Cleanup is with mineral spirits followed by warm soapy water.