



AF-100™ Permanent Anti-Fog Coating

Description

AF-100™ Anti-Fog coating for plastics causes moisture from the air to spread in an even film over the plastic surface without forming droplets. Consequently, the surface remains free of fog, even under very humid conditions which would normally cause fogging of the surface. This permanent coating eliminates the need for temporary anti-fog sprays, wipes, and solutions.

Applications

AF-100 Anti-Fog coated plastics can be used wherever surface fogging is a concern. Plastic mirrors for boats, motor homes and showers are ideal applications. In addition, these products are well suited for use in face shields and goggles, as well as environmental enclosures, walk-in cooler windows and instrument lenses.

Properties

Coating Adhesion - No coating removal in standard crosshatch tape pull adhesion testing.

Clarity - No loss of light transmission or increase in haze due to the coating.

Durability - Substantial improvement in the mar resistance of the coated plastic surface.

Anti-Fog Performance - Plastic surfaces coated with **AF-100 Anti-Fog** resist fogging under a variety of conditions. The performance of the coating has been evaluated using the following exposure tests:

Breath Fog Test - No fog formation after direct breathing on the coated surface.

Shower Test - No fog formation after 45 minutes exposure to the warm moist air of a hot shower.

Hot Water Test - No fog formation after exposure to the vapor from a vessel containing 175°F water.

Freezer Test - No fog formation after transfer from a freezer to a humid environment.

Immersion Test - No loss of anti-fog properties after a 24-hour water soak (sample allowed to air dry).

Cleaning Instructions

The **AF-100 Anti-Fog** coating is hydrophilic and functions by attracting a thin layer of water in a uniform film over the surface of the plastic. Consequently, the surface must be clean or the coating will not function properly. If the surface has been subjected to contaminating conditions, observe the following cleaning instructions to maintain the function and integrity of the coating:

Clean only with water or a solution of mild dish washing soap and water.

Wash and rinse with plenty of liquid using a soft cloth, cellulose sponge or chamois.

Dry until moist with a clean, soft cloth - **Do not** rub dry with coarse paper towels or soiled towels.

Do not use any cleaning agent containing an abrasive.

Product Availability

AF-100 Anti-Fog coating can be applied to many clear, tinted, and mirrored plastics including acrylics, polycarbonate, PETG, PET, PVC, and polystyrene. It can be applied on one or both sides or it can be combined with Mar-Con® mar resistant coating for a two side coated product. Standard sheet size is 48" x 96". Smaller sizes and larger sizes up to 72" x 96" are also available. **AF-100 Anti-Fog** coating can also be applied to customer supplied parts and assemblies.

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