

Antifog Coating for Polycarbonate

AF8898WB:

Highly durable, tough and transparent, polycarbonate (PC) sheets are very common in construction and roofing applications. However, fog accumulation in either hot or cold environments may block light transmission and can result in undesired dripping.

Unfortunately, standard antifogging (AF) masterbatches cannot be employed in the manufacture of PC, due to the high processing temperatures involved, the susceptibility of PC to the AF additives, and its low tendency to allow AF additives to migrate to the surface.

Tosaf's AF8898WB is a waterborne formulation of AF agents, specifically tailored to prevent fog accumulation on PC and PMMA sheets and panels. Designed for application on top of plastic films, sheets and panels, the formulation acts as a coating or finish to provide long-term antifogging activity, avoiding the challenges of integrating it into the product itself.

AF8898WB can be applied using standard application methods, such as spraying, roll-coating, dipping or padding, and has a short drying and curing cycle which enables in-line application.

ADVANTAGES:

- Suitable for use in applications where antifog masterbatch is either not technologically feasible or not cost effective, but which demand very long-lasting performance
- Provides long-term antifog protection, starting immediately upon application
- Effective in both cold and hot fog scenarios
- Can be applied using various application methods
- Stable formulation with long pot life (no sedimentation and/or phase separation)
- No VOC or flammability issues
- Does not impede production and does not require expensive off-line processes

APPLICATIONS:

- Building & construction (e.g. roofing, PC greenhouses)
- Automotive (e.g. windshields, headlights)
- Home, sports & leisure (e.g. swimming and safety goggles, helmet visors, sunglasses)

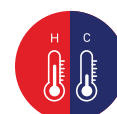
APPLICATION RECOMMENDATIONS:

- Recommended loading level is 0.05-0.5 g m⁻² of the active content on top of the substrate.

ADVANTAGES



Long-Term Antifog Protection



Effective in Cold and Hot Fog Scenarios



No VOC or Flammability Issues



No Off-Line Processes

APPLICATIONS



Building and Construction



Automotive



Home, Sports and Leisure

