FK500 +

Permanent Antifog Coating

Key Features

- ✓ Permanent hydrophilic absorbent characteristic
- ✓ Water based single-component, non-hazardous solution and ready to use
- ✓ Direct application to glass. Application with primer to polycarbonate
- ✓ Fast cure

Principles

The FK500+ coating performs like a sponge which absorbs the water condensation.
FK500+ coating absorbs condensation and allows a thermal exchange which further reduces the temperature difference between the surface and ambient air: the surface of the material is no longer subject to the phenomenon of condensation.

Capabilities

FK500+ offers outstanding demisting capabilities characteristics with no competitive equivalent in the industry.
Compliant with ECE22/05 - EN166:2002 - EN168:2002 - EN14458 - MIL.I.83336B – SAE J-2020

Self-Healing: Most of the scratches (material squeezes) revert to initial shape when exposed to condensation cycles or dipped into the water.
Self-Cleaning: FK500+ offers outstanding self-cleaning characteristics: the coated surface with FK500+ will prevent the dust, grease pollution to adhere.

User instructions for glass

- ✓ Cleaning by ultrasonic cleaning or IPA wiping and drying before coating
- ✓ FK500+ application by Dip coating or Flow coating
- ✓ Infra reds or Hot air curing 150°c, 60 minutes

User instructions for polycarbonate

- ✓ Cleaning by ultrasonic cleaning or IPA wiping and drying before coating
- ✓ Primer application by Dip coating or Flow coating
- ✓ Infra reds or Hot air curing 125°c, 10 minutes
- ✓ Cooling to ambient temp. (10 minutes)
- ✓ FK500+ solution application by Dip or Flow coating
- ✓ Infra reds or Hot air curing 125°c, 30 minutes

FK500+ consumption: 170 g/m2
Primer consumption: 25 g/m2
Working Tp & Hr condition: from 18°c to 30°c and < 65% HR
Drum storage: 5°C to 40°C

Maintenance

In case of finger marks, stains or even scratches the surface may be cleaned with water with or without detergent. After rinsing simply let it air dry without wiping.

Product data

Main component: Polyvinyl Alcohol
Appearance: Clear
Density @20°C: 1.02 Kg/l
Viscosity@ 20°C: 600 Cst (primer: 17 Cst)
Solid contents: 9,5 +/-1 %
Ph: 5,3

Cured film properties

Haze: < 0,3 %
Thickness film: 7 µ
Refractive index: 1.50
Pencil hardness @ 1 kg dead weight: > 3B
High velocity impact @ -10°C: > 150 ft/s
Resistance to surface damage by fine particles: < 3,5 **(**cd/ m^2) / lx
Resistance to fogging: > 140 sec
Resistance to chemicals
Dielectric holding
Thermal cycle