

# Gemini<sup>®</sup> Superhydrophilic Anti Fog Agent

## AnF-113

### [Introduction]

AnF-113 is a long term superhydrophilic anti fog agent, it is water based one-part heat-curing type, non-toxic and eco friendly. Combining interface compact adhesion, it has high transparency and outstanding weatherability, damp and heat resistance, acid and alkali resistance, abrasion durability, it brings water hydrophilicity and anti fog to glass substrate, keeping it optical transparent and dust proof.

### [Typical Properties]

Properties	Units	AnF-113
Solid	Wt%	35
Appearance	/	Translucent liquid
Density	g/cm <sup>3</sup>	1
Solvent	/	Water
Curing	/	120°C 12 mins

### [Performance]

Test Item	Test Method	AnF-113
Water contact angle	10~20 μ L Water	<10°
Film color	Observation	Transparent
Thickness	μ m	5~10
Hardness	Pencil hardness tester	H~2H
Light Transmittance	Light transmittance tester, 380nm~780nm	> 88%
Abrasion Durability	EN-1096	Good
High Temp/High Humidity	85°C × 85% RH × 100hrs	Good
Thermal Shock	-40°C × 1hr ⇄ 85°C × 1hr, 10cycle	Good
Weatherability	UV weather test chamber, 100hrs, color aberration within ΔE=1.0	Good

**[ Applications]**

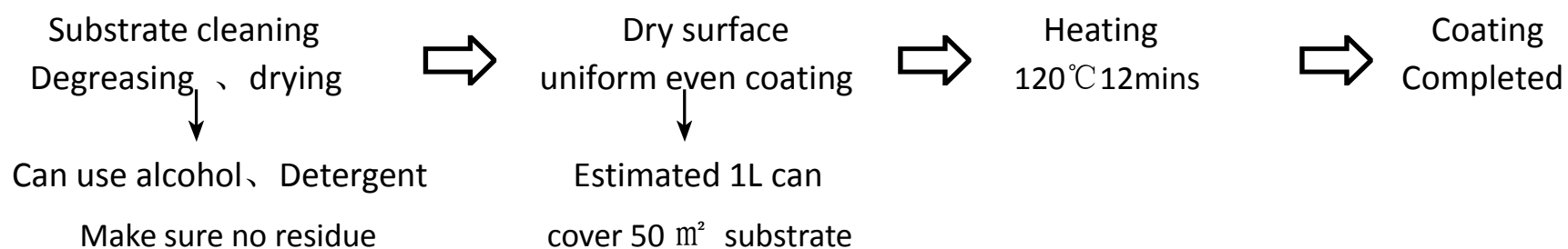
Used in helmet, mirror, bathroom, front light, rearview mirror, goggle, shielder etc.

**[ Processing Method]**

**Dipping, flowing, brushing. Make sure the coating is uniform and even. The temperature of the surface to be coated should be 5°C~35°C. Keep containers at room temperature prior to use. All surfaces need to be dry and free from wax, grease, and polishes for good adhesion.**

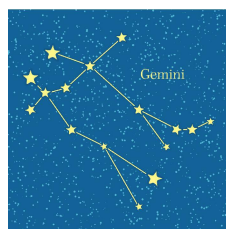
**Please clean the tools or spray gun with absolute ethanol before and after processing to avoid cross contamination. Dipping and flowing please select suitable automatic device. Then can proceed the heating process. After heat curing can right away move or transport.**

**The heat cured coating must continue to dry for over 24 hours to reach maximum durability, so suggest testing after 1 day. For best long- term performance avoid imposing excessive mechanical friction or other surface treatments.**

**[Attention]**

- During processing, avoid direct contact with the skin, using gloves and safety glass in the test. If skin contacts with products, immediately wipe with a dry cloth and then wash skin with soap and water, If eyes contact with products, immediately flush eyes with plenty of water for at least 5 minutes, and call a physician.
- Keep the container sealed and store in freezer 5°C, well ventilated locations, shelf life is 6 months.

**[Packaging/Transport]** 20L plastic jug. Not classified as dangerous in the meaning of transport regulations



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