



## VUEGUARD 932<sup>®</sup> AF

Vueguard 932<sup>®</sup> AF is a UV-curable coating that provides excellent resistance to fogging. Although designed for polycarbonate substrate, it can be applied to primed acrylic and other substrates.

### Fogging Test

Hot Fog (1) – Time to Fog	> 30 Minutes
Cold Fog (2) – Time to Fog	> 1 Min 30 Seconds
Cold Fog (3) – Time to Fog	> 30 Seconds

1. Test sample placed over 300ml beaker filled with 250ml of water at 60°C
2. Test sample kept in freezer at -10°C for 45 min and tested for fogging at 25°C
3. Test sample kept in freezer at -10°C for 60 min and tested for hot fogging (1)

### Mechanical Properties

Adhesion [%] (4)	100
Scratch Resistance [psi] (5)	2
Pencil Hardness (6)	2 H
Taber Abrasion (7)	13

4. ASTM D 3359
5. Steel wool rotary testing using 1.25 square inch #0000 steel wool at 2 psi for 5 revolutions.
6. ASTM D 3363, modified Mitsubishi Hi Uni pencils at 750g load and 45° angle.
7. ASTM D 1044, CS-10, 500g load, 100 cycles, Kryptonite B

### Hot Water / High Temperature Resistance Tests

	Untreated	Water Immersion (9)	High Temperature (10)
Light Transmittance [%] (8)	90	90	90
Haze (8)	0.3	0.5	0.3
Yellowness Index (9)	0.5	0.8	0.7
Adhesion (4)	100%	100%	100%

- 8, ASTM D 1003-61
9. ASTM D-1925
10. Coated sample is immersed in 80°C water for 30 min.
11. Coated sample tested after 5 hours at 80°C.

### Cleaning Test <sup>(12)</sup>

Before Test	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Cycle 6	Cycle 7	Cycle 8	Cycle 9	Cycle 10
No fog	No fog	No fog	No fog	No fog	No fog	No fog	No fog	No fog	No fog	No fog
1-30 sec	1-30 sec	1-30 sec	1-30 sec	1-30 sec	1-30 sec	1-30 sec	1-30 sec	1-30 sec	1-30 sec	1-30 sec

12. Samples were sprayed with Windex then wiped clean with a dry scratch free rag. Anti-fog properties were tested after each cycle for hot fogging (1).

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