Vistex® One-part and Two-part Coatings Technical Information

Anti-fog Products	Vistex 105-20 (Two-Part)	Vistex 111-50 (One-Part)
Recommended Thickness	4-8 microns	3-6 microns
Solid(s) Content (by weight)	Part A 13%; Part B 27%	10%
Viscosity Range (Brookfield)	Part A 75-150 cps, part B 10-25 cps	40-100 cps
Refractive Index	N/A	N/A
Appearance	Part A-colorless to pale amber; Part B-clear to slightly hazy	Colorless to pale amber with a clear to slightly hazy appearance
Recommended Solvent Mix	2:1 IPA-isopropyl alcohol to DI Water	If container tightly sealed, solids should remain at 10%. Solvent mix: DI water/ Isopropanol/N-methyl-2-pyrrolidone
Alternative Solvent Mix	N/A	N/A
Water Washable	Yes	Yes
Silicon Incompatible	Yes	Yes
Dip or Flow Coat	Both	Both
Recommended Substrate	Preferred substrate is PC w/o primer	Same as 105-20
Primer Needed in	Glass, metal & metalized plastics	Same as 105-20
Recommended Solution to Solvent Ratio for Flow Coating	10 parts Part A; 1 part Part B; 3 parts IPA-isopropyl alcohol & 1.4 parts DI water. This formulation will achieve 10% solids	Ready for use
Recommended Solution to Solvent Ratio for Dip Coat	10 parts Part A, 1 part Part B, 3 parts IPA-isopropyl alcohol & 1.4 parts DI water. This formulation will achieve 10% solids	Ready for use
In Process Filtration	0.2 micron filter, started 2 hours before coating process, should be kept continuously running	Same as 105-20
Pot Life	Mix at let rest overnight, covered, before using. If Parts A and B are mixed together for storage they may remain usable for up to 6 months.	Pot life depends on environmental factors such as heat and humidity. Keep sealed tightly in container to prolong pot life to full 6 months.
Shelf Life	1 year for both Part A and Part B	6 months
Air Dry Time	Oven curing should begin as soon as possible after coating (5-10 min)	Same as 105-20
Pre-Cure or IR cure, if desired	10 min @ 60C°	Same as 105-20
Curing Conditions for Polycarbonate	130C for 30 min	Same as 105-20

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Post Cure	Let rest overnight	Same as 105-20
Packaging	HDPE Bags, do not package in areas of high humidity, >than 70% RH	Same as 105-20
Tinting	N/A	N/A
Clean-up	Soap and water & IPA-Isopropanol alcohol	Same as 105-20
Technical Properties	**Vistex 105-20 (Two-Part)**	**Vistex 111-50 (One-Part)**
Tests Passed for Fog Resistance	N/A	N/A
EN166 UV radiation	N/A	N/A
Clarity	Less than 1% haze	Same as 105-20
Scratch Resistance, Taber Abrasion According to ASTA D1044	Superior to untreated polycarbonate	Same as 105-20
Falling Sand Abrasion According to ASTM D968, Diffusion of Light	N/A	N/A
Pencil Hardness	5B or greater on wet lens	Same as 105-20
Anti-fog Test 1	1 hr soak/1 hr dry-50C water in beaker, 30 sec fog-free	Same as 105-20
Anti-fog Test 2	24 hr soak/1 hr dry-place part in refrigerator until part temp is 4C°. Place part in room temp (21C°) at 70%-80% RH. Part should remain fog free.	Same as 105-20
Chemical Resistance to Solvents	Excellent, when briefly exposed	Same as 105-20
Bleach, DEET Resistance	N/A	N/A
Weathering	Does not crack or peel in sunlight, protects most plastics from yellowing	Same as 105-20
Maintenance & Care	Can tolerate cleaning solvents and detergents. Can degrade with exposure to grease and oil. Clean with grease cutting detergent. Do Not Clean w a Dry Paper Towel!	Same as 105-20

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