



TECHNICAL DATA SHEET – AQUA DIY D-100

PRODUCT DESCRIPTION

AQUA DIY D-100 is a revolutionary single component thermoplastic product for plastics, fiberglass, rubber and other composite product substrates.

CHARACTERISTICS

	Gloss	Satin	Matt
Gloss @ 60 reflectance	70% Minimum	30 – 55%	10 – 25 %
Specific Gravity @ 20 deg C: 1.03 +/- 0.02		1.05+/- 0.02	1.09+/- 0.02
Weight Solids (%)	37.5 +/- 1 %	38.3 +/- 1%	39.1 +/- 1%
Volume Solids (%)	38.8 +/- 1%	40.6 +/- 1%	42.5 +/- 1%

Packaged Viscosity: 300 – 1500 cps @ 20 RPM

Brookfield Viscometer (RVT Model) No. 2 Spindle @ 20 deg C

Shelf Life: 12 Months (5 deg C to 35 deg C: Protect from direct sunlight)

Flash Point: Above 100 deg C (Measured with Seta Closed Cup)

pH: 8.30 – 8.50

Volatile Organic Content (VOC) 31 grams per litre

FILM THICKNESS

Dry Film Thickness 50 +/- 12.5 microns

Wet Film Thickness 128 +/- 29 microns

CURE PROCESS

Surface is dry to touch after the Flash-Off Time.

Oven curing leaves substrate sufficiently dry to handle and reduces risk of humidity or particle contamination.

Post curing leaves coating fully cured and hardened.

Post curing time can be reduced by 50% using infrared curing prior to oven stage.

Flash Time (Final Count): 10 - 20 minutes @ 20 – 25 deg C (depending on air movement)

Oven Cure : 1 Hour @ 30 - 55 deg C

Post Cure : 7 Days @ 20 – 25 deg C

Humidity at the paint/dry room: 40 – 60 %

Optional: Infrared curing

Post Cure: 15 minutes @ Substrate Temperature of 65 deg C

APPLICATION EQUIPMENT (EXAMPLES)

Equipment	HVLP Cup Gun	Conventional Cup Gun	Conventional Cup Gun
Manufacturer Model (Gun)	Binks Mach IBBR	DeVilbis JGK-501	DeVilbis JGK-502
Fluid Tip		97	FF
Air Cap		95P	797
Atomizing Pressure		40 - 65psi	40 - 50psi

CLEANING OF EQUIPMENT

AQUA DIY D-100 is supported by a specialized waterborne cleaning solution, which has been formulated in conjunction with AQUA DIY D-100. It is essential that the spray equipment be cleaned immediately after use to prevent damage.

REDUCTION OF AQUA DIY D-100

AQUA DIY D-100 is ready to spray straight out of the can. If reduction is necessary, (as detailed in “The Application Manual – AQUA DIY D-100”), then reduce the product by up to 3% by volume using distilled water. Further reduction will affect the performance of the coating.

PRODUCT VISCOSITY

If measuring viscosity of AQUA DIY D-100, do not use Zahn or Ford viscosity cups since the product is thixotropic. Brookfield Viscometer is recommended.

STORAGE CONDITIONS

AQUA DIY D-100 must be stored in a building out of direct sunlight at a temperature of between 5 deg C and 35 deg C. All containers must be closed when not in use to prevent formation of skins or dry particles. AQUA DIY D-100 has a shelf life of 12 months if stored correctly. Do Not Allow AQUA DIY D-100 to Freeze.



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