

ACA 10-102

Chemical Resistant Black Semi-Gloss Coating

Coating

PRODUCT DESCRIPTION—ACA 10-102 is a waterborne, semi-gloss, black, chemically-resistant coating. A cross-linking agent must be added prior to this coating in order to achieve the desired chemical resistance. The pot life after cross-linker addition is three days. The base polymer for this application is an acrylate block copolymer. Cross-linking is via pendant carboxyl groups, which also enhances the metal adhesion.

TYPICAL USE—ACA 10-102 is designed especially for resistance to exterior exposures encountered typically in automotive applications.

COATING METHOD—The coating may be applied by gravure, wire wound bar or nip fed reverse roll coater. Small parts or unique shapes may be spray, rolled, or brush coated. Additional water may be added to enhance process ability. It is essential that total coverage of the aluminum be attained to provide good chemical protection of the metal.

CLEAN UP—Wash the equipment with water to remove the wet adhesive. The dry coating may require a toluene wash. Toluene is a flammable solvent and must be used according to OSHA safety standards.

WET PHYSICAL PROPERTIES

<u>Test</u>	<u>Value</u>	<u>Test</u>	<u>Value</u>
pH	8 - 9	Percent VOC by volume . . . . .	.7.09
Viscosity (cps)	650	Percent water by weight . . . . .	.65.49
wt./gal. (lbs.) . . . . .	.8.33	Percent water by volume . . . . .	.65.43
Percent solids by weight . . . . .	.28.13	Percent of VOC per gallon . . . . .	.0.53
Percent solids by volume . . . . .	.27.48	Pounds of VOC per gallon less water . . . . .	.1.54
Percent VOC by weight . . . . .	.6.38		

DRY PHYSICAL PROPERTIES—IMMERSION, 72° F

<u>Fluid</u>	<u>24 Hrs.</u>	<u>168 Hrs.</u>	<u>Fluid</u>	<u>24 Hrs.</u>	<u>168 Hrs.</u>
5% NaCl in water	Pass	Pass	Motor oil 20w 50	Pass	Pass
50% ethylene glycol in water . . .	Pass	Fail	Motor oil 10w 40	Pass	Pass
Dawn detergent	Pass	Pass	Windshield washer fluid	Pass	Pass
Van Sol detergent, 100%	Pass	Pass	Power steering fluid	Pass	Pass
Van Sol detergent/water 1/64 . . .	Pass	Pass	Auto transmission fluid	Pass	Pass
			Brake fluid	Pass	Pass

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