

# ACA 10-101

## Chemical Resistant Black Matte Coating

Coating

**PRODUCT DESCRIPTION**—ACA 10-101 is a water-borne, matte black, chemically resistant coating designed especially for resistance to exterior exposures encountered in automotive applications. 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 enhance the metal adhesion.

**TYPICAL USE**—Automotive applications or other application requiring high resistance to various fluids and solvents.

**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 sprayed, 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**—Washing with water will easily clean the wet coating. 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

Test	Value	Test	Value
pH	8 - 9	Percent VOC by volume	9.3
Viscosity (cps)	550	Percent water by weight	59
wt./gal. (lbs.)	8.8	Percent water by volume	62
Percent solids by weight	33	Percent of VOC per gallon	0.74
Percent solids by volume	28	Pounds of VOC per gallon less water	1.96
Percent VOC by weight	8.4	Color	Matte Black

### DRY PHYSICAL PROPERTIES—IMMERSION, 72° F

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

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