

ACA 10-100

Heat Resistant Matte Black Coating for Metals

Coating

PRODUCT DESCRIPTION—ACA 10-100 is a water based matte black coating which exhibits heat resistance to over 500°F without smoking, blistering, or the loss of adhesion or flexibility. The black coating is intended for application to 1 or 2 mil soft aluminum foil where intense infrared heat from Klieg lights or space heaters is encountered. Further, the coating is a potential candidate for other high temperature applications. It is advisable to test for suitability for the specific application. A curing agent must be stirred into the coating immediately prior to coating. The pot life is about 3 days. Viscosity reduction may be accomplished by the careful addition of water.

TYPICAL USE— Klieg lights, space heaters and other applications that require heat resistant coatings.

COATING METHOD—The ACA 10-100 may best be applied by rotogravure at a thickness of 0.1 to 0.2 mils. Curing is normally performed at about 400°F and 300 FPM in a 25 ft. oven. Operating conditions will vary with different ovens and coating weights and require some experimentation.

CLEAN UP—Hose down the machine and direct the excess water to a drain. Warm soap and water may be used for the hard to clean areas of the coater. Dry, uncured coating can be removed with toluene. Toluene is an inflammable, volatile solvent and should be used in conformance with OSHA guidelines. The cured coating is very insoluble and difficult to clean from the equipment.

WET PHYSICAL PROPERTIES

<u>Test</u>	<u>Value</u>
pH	6.5-7.5
Viscosity (cps)	3,000-6,000
wt./gal. (lbs.)	9.097
Percent solids by weight	33.55
Percent solids by volume	29.43±1
Percent VOC by weight	3.98±1

DRY COATED PROPERTIES

<u>Test</u>	<u>Value</u>
Color	matte black
Thickness	0.15–0.30 mils
Dry rub	pass
MEK rub	5 times pass
Crease flex	no cracks
Heat resistance, 500° F	excellent
Light absorbent	99.8%

NON-WARRANTY NOTICE—Our recommendations, if any, for use of this product are based on tests believed to be reliable. The greatest care is exercised in the selection of our materials and in our manufacturing operations. We make no recommendation to use this product in any manner which conflicts with existing laws and/or patents and WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, REGARDING THIS PRODUCT OR ITS USE, INCLUDING MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. THE MANUFACTURER IS NOT LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES OF ANY KIND.

