

# VAMA

## Carboxyl-Modified Vinyl Chloride/Vinyl Acetate Copolymer

**Description:** A high molecular weight resin; equivalent to Dow VMCH. Because of the carboxyl group, this product has excellent adhesion to aluminum and aluminum foil, PVC, ABS, paper, textiles, concrete, etc. At the same time, VAMA exhibits good water resistance, excellent oil, grease, ester, alkali, acid and salt water solution resistance.

**Solubility:** Ketones are especially good solvents, while esters are relatively weak solvents. Chlorinated hydrocarbons, such as 1,2-dichloroethane can completely dissolve VAMA, while methyl chloroform and tetrachloroethane will only swell it. Aromatic hydrocarbons play a good roll as diluents in swelling the resins and can be used in conjunction with the ketones. VAMA will typically be dissolved in strong solvent/diluent combinations to produce resin solutions of 22 to 25% solids.

**Application:** VAMA can be used in a wide range of coating applications, including for marine, maintenance, aluminum foil varnish, sealant for paint cans, shoe adhesives, floor paint, silk screen printing and transfer inks, as electro-chemical aluminum paint, and thermal transfer adhesive. It can also be used as a heat sealable coating in packaging and medical applications, where it effectively reduces heat seal temperature and increases seal strength.

### VAMA Typical Properties

Appearance (solid)	White powder
Appearance (25% solids in 50/50 MEK/Tol)	Clear colorless
Composition % by weight ( $\pm 1\%$ )	vinyl chloride - 86
	vinyl acetate - 13
	maleic acid - $1 \pm 0.2$
Reactive Functionality (carboxyl)	$1.0 \pm 0.2\%$
Glass Transition Temp ( $T_g$ )	ca. $72^\circ\text{C}$
Av. Molecular weight ( $M_n$ )	ca. 27,000
% by wt through 60 mesh	100%
Volatile %	$\leq 1\%$
Impurity (no. of particles/100g)	$\leq 20$

The above product and application information are generally accepted practices for this product in its given industries. The handling of Marubeni's products is beyond the control of the Producer and Seller, and so no warrantee as to the results obtained is made, expressed or implied, whether the product is purchased or furnished as a sample. The Purchaser or User should therefore, by his own tests and experiments, determine the suitability of this product for his own particular use.



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