

VMA

Carboxyl-Modified Vinyl Chloride/Vinyl Acetate Copolymer

Description: A low molecular weight resin; equivalent to Dow VMCA. 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, VMA offers a desirable balance of chemical resistance, solubility, diaphaneity, film strength and thermoplasticity. It also has excellent interlayer adhesion.

Solubility: VMA is characterized by a high degree of solubility in solvent systems having a high aromatic hydrocarbon content. While most vinyl resins will perform best in 50/50 ketone/hydrocarbon blends, the VMA will perform well in a 25/75 blends. Ketones are especially good solvents, while esters are relatively weak solvents. Chlorinated hydrocarbons, such as 1,2-dichloroethane can completely dissolve VMA, 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. VMA will typically be dissolved in strong solvent/diluent combinations to produce resin solutions of 22 to 25% solids.

Application: VMA yield the good balance of solubility and viscosity properties needed for high-build, air-dry maintenance finishes, and is often used to make coatings and adhesives where higher solids and desirable. VMA can be used in air-dry finishes such as maintenance, marine and metal coatings, interlayer adhesives, aluminum foil varnish, UV surface treatment, UV primer, thermal transfer adhesive, shoe adhesive, ink-jet and metal inks, etc.

VMA Typical Properties

Appearance (solid)	White powder
Appearance (25% solids in 50/50 MEK/Tol)	Clear colorless
Composition % by weight ($\pm 1\%$)	vinyl chloride - 81
	vinyl acetate - 17
	maleic acid - 2 ± 0.2
Reactive Functionality (carboxyl)	$2.0 \pm 0.2\%$
Glass Transition Temp (T_g)	ca. 70°C
Av. Molecular weight (M_n)	ca. 15,000
% by wt through 60 mesh	100%
Volatile %	$\leq 1\%$
Impurity (no. of particles/100g)	≤ 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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