



Marubeni

Specialty Chemicals Inc.

HVAMA

Carboxyl-Modified Vinyl Chloride/Vinyl Acetate Copolymer

Description: A super macromolecular weight resin; without a Dow equivalent. 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, HVAMA has excellent water resistance, oil, grease, ester, acid alkali and salt water solution resistance. HVAMA offers a desirable balance of chemical resistance, solubility, diaphaneity, film strength and thermoplasticity. It exhibits good hardness and flexibility properties.

Solubility: Ketones are especially good solvents, while esters are relatively weak solvents. Chlorinated hydrocarbons, such as 1,2-dichloroethane can completely dissolve HVAMA, 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. HVAMA will typically be dissolved in strong solvent/diluent combinations to produce resin solutions of 15 to 20% solids. Because of its macromolecular weight, solids content is lower than is typical for most vinyl resins. Solutions with an excess of solids content will rise dramatically in viscosity and may gel. Gels can be re-dissolved with the addition of more of the diluent/solvent blend.

Application: HVAMA is used primarily in air-dry finishes, such as maintenance, marine and metal coatings, paint can sealer, wood and glass coatings metal inks, adhesive binder for nails, etc.

HVAMA Typical Properties

Appearance (solid)	White powder
Appearance (15% solids in 50/50 MEK/Tol)	Clear colorless
Composition % by weight (\pm 1%)	vinyl chloride - 84
	vinyl acetate - 13
	maleic acid - 3 \pm 0.2
Reactive Functionality (carboxyl)	3.0 \pm 0.2%
Glass Transition Temp (T_g)	ca. 74 °C
Av. Molecular weight (M_n)	ca. 34,000
% 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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