



## Hydroxyl-Modified Vinyl Resin VAAH (equivalent to VAGH of DOW)

Hydroxyl-modified vinyl chloride/vinyl acetate copolymers (VAAH) is made in a two-step process. VAAH has a composition of approximately 90% vinyl Chloride, 8% vinyl acetate and 2% vinyl alcohol. VAAH can be dissolved in relatively strong solvent/diluter combinations, such as 50 percent ketone/50 percent aromatic hydrocarbon, to produce resin solutions of 20 percent solids.

An important feature of VAAH resin is the good compatibility with many other resins, such as alkyd, PU, isocyanate resin, epoxy, melamine and carbamide resin. So VAAH is often formulated with other resins to improve the adhesion, flexibility, toughness, hardness and chemical resistance of coating. VAAH contains hydroxyl group in its molecule, so it can crosslink in a thermoset coating system to provide better water and chemical resistance.

VAAH resin is widely used in the following coatings applications:

Industrial maintenance and marine coatings, wood finishes, paper coatings, metal decorative and container coatings, PVC/Steel plate adhesive, and as a binder in magnetic tape.

### Specification:

Item	Specification
Appearance	White powder
Composition:	VC: $90 \pm 1\%$ ; VAC: $4 \pm 1\%$ ; Vinyl Alcohol: $6 \pm 0.5\%$
Tg (°C)	~ 79
MW	~ 27,000
Viscosity	$58 \pm 2$
Particle size (40 mesh)	100%
apparent specific gravity	0.45 - 0.5
Volatile content	$\leq 1\%$
Black point /100g	$\leq 10$
Solubility (20% butanone/toluene solution)	Colorless and transparent