

TECHNICAL DATA SHEET

DEMPOL SV 509 HW

HOMOPOLYMERIZED VINYL ACETATE EMULSION FOR THE PRODUCTION OF ADHESIVES

DEMPOL SV 509 HW IS A WATER -BASED ,HIGH VISCOUS, POLYVINYL ACETATE DISPERSION HAVING 50% SOLID CONTENT,STABILIZED BY POLYVINYL ALCOHOL. APEO free - SVHC free.

EMULSION PROPERTIES

Type of Polymer	: Polyvinyl Acetate Homopolymer
Solid Content (%)	: 50 ± 1
pH (at 25°C)	: 4 – 5
Average Particle Size (µm) approx.	: 0.59
Viscosity (Brookfield RVT-DVII+) (at 25 °C)	: 65000-80000 mpa.S (spindle:6/10rpm)
Stabilizing System	: PVAL
Free Monomer Content (%)	: <0.3
Density (at 25 °C)	: 1.05 - 1.15 (gr/ml)
Minimum Film Forming Temperature (°C)	: +14 / +15.5
Film Appearance (at 25 °C)	: Clear, brittle
Physical Properties	: High viscous,homogeneous, white liquid
Glass Transition Temperature (°C)	: +29

APPLICATION

DEMPOL SV 509 HW is particularly recommended for the preparation of adhesives for wood, paper and for the textile applications. If it is mixed with plasticizer (e.g. Dibutyl Phthalate or Butyl Diglycol Acetate) in 5-10 %, some other adhesives can also be produced. It can be dried rapidly because of high solid content. Since the emulsion does not contain any filler, it can transform to a transparent film.

Although the most common problems of all adhesives are to turn yellow and smell of nonpolymerized monomer, SV 509 HW does not exhibit both problems due to its high stabilizer content. Its binding force is very high because filler does not exist. If desired, 5-10 % filler can be added into SV 509 HW.

Conventional defoamers can be used for inhibiting foam formation.

Eventhough DEMPOL SV 509 HW is protected from microorganisms. It is required to add antibacterial agents to the finished products to ensure good storage stability.

SAFETY

PERSONAL PROTECTION	: Wear suitable protective clothing , gloves and glasses for eye / face protection.
SKIN CONTACT	: Wash skin as soon as possible with plenty of water.
EYE CONTACT	: Flush immediately with plenty of water , keeping eyelids open , for at least 15 minutes. Remove contact lenses. Seek for medical assistance.

HANDLING & STORAGE

HANDLING	: Ventilate the working place thoroughly. Avoid contact with skin, eyes and clothes. No eating and drinking in the work place.
STORAGE	: Stable for 12 months , in close drums at ambient temperature (+5 / +40°C) avoid freezing temperatures and sources of heat and direct sunlight.

NOTE

The above information is based on our knowledge and experience. In view of many factors that may affect processing and application, these data do not relieve end-users from the responsibility of carrying out their own tests and experiments.