

Technical Datasheet (DA-502)

PRODUCT SPECIFICATIONS

	Inspection Method	Value
Solids content	DCC method	54.50 % min
Viscosity at 25 °C	DCC method	3000 – 4000 mPa.s
pH	DCC method	4.5- 6.5

TYPICAL PROPERTY

	Inspection Method	Value
Film Appearance	Visual	Cloudy
Tg	DCC method	0 °C
Stabilizing System		Polyvinyl alcohol/ Surfactants

INTRODUCTION

DA-502 is a non-plasticized aqueous milky white copolymer dispersion based on vinyl acetate and ethylene. After evaporation of its water content, DA-502 forms a flexible film with best adhesive properties for broad applications.

It is a preferred raw material for the formulation of high speed packaging adhesives with increased water stability, also especially because it shows best adhesive properties to difficult to bond substrates, such as lacquered surfaces and plastic films in the packaging and paper industry.

DA-502 is also an excellent base emulsion for floor-, wall- or ceiling adhesives.

It shows good resistance against aging, light or saponification. As a result, the durability of your products could be enhanced with usage of DA-502 and suitable applicative industrial formulations. Besides, DA-502 is very friendly product for our environment.

From the viewpoint of industrial applications, the compatibility of raw materials is considered important to manufacturers.

Solutions of not only partly but also of fully hydrolyzed Polyvinyl Alcohols can be added without separation problems, an advantage for some applications where increased water stability is

necessary.

If advantageous, the emulsion can be modified with plasticizers showing low thickening response.

DA-502 also the use as base for EPI wood glue systems by blending with fully hydrolyzed Polyvinyl Alcohol.

RECOMMENDED APPLICATIONS

The DA-502 exhibits excellent mechanical stability, and shows good wet tack and fast setting speed, so it can be ideally applied by a variety of techniques, including roller blade, spray gun or extrusion. The excellent adhesion property to a wide variety of even difficult to bond materials used in the packaging industry makes the emulsion an ideal raw material for the paper and film industry.

Again the increased water resistance should be stressed, and some specialities should be outlined in the following:

- book binding
- envelopes, specially back seams and glue laps of all kinds
- clay coated paper board
- padding
- cigarette packaging
- cups, composite cans, generally: glue laps
- multi wall bags, beverage cases
- water-resistant Kraft paper in general
- base for EPI wood glue systems
- plastic- (PVC-) or metal foil bonding

SAFETY & STORAGE

In general, DA-502 is considered safe for its intended use. However, as this class of products always contains minor amount of residual vinyl acetate monomers, adequate ventilation is recommended in rooms where DA-502 is handled. Generally when working with polymer emulsions, protective clothes, gloves and also goggles should be used. Splashes on the skin or in the eyes should immediately be removed by

irrigation with clean water.

DA-502 should be stored in sheltered areas at temperatures between 5 and 40 °C; do never store under freezing conditions. Soft lumps or skins may tend to be formed during transportation and storage, therefore filtration is recommended before use. If the product is not transferred completely at one time, the user shall take adequate precautionary measures to prevent the possible formation of lumps or skins on the product. Opened containers should be closed soon to prevent skinning. If the product is stored for a longer period, stirring is recommended before use. Shelf life of DA-502 is minimum 6 months, provided the product is stored in original, unopened containers under proper conditions. Stirring is required before utilizing the product if it has been stored for a longer period.

DA-502 is adequately preserved to prevent microbial contamination. However, if the product is kept in original containers which have been opened, or is transferred to other tanks, the product should be added with suitable preservative package to protect it against microbial attack. Equipment and facilities used to transfer the product should also be kept adequately clean. Finished products manufactured from polymer emulsions usually also require preservation.

SAFETY NOTICE

Material Safety Data Sheets are available on request from sales offices or may be printed via web site www.dcc.com.

PACKAGING

Iron drum 220Kg/ PE IBC 1.1 MT/ Flexible bag/
road tanker

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