

# Technical Datasheet (DA-103)

## PRODUCT SPECIFICATIONS

	Inspection Method	Value
Solids content	DCC method	60.00 % min .
Viscosity at 25 °C	DCC method	1500 - 2500 mPa.s
pH	DCC method	4.5- 6.5

## TYPICAL PROPERTY

	Inspection Method	Value
Film Appearance	Visual	Clear, glossy
Tg	DCC method	0 °C
Stabilizing System		Polyvinyl Alcohol

## INTRODUCTION

DA-103 is a non-plasticized aqueous milky white copolymer dispersion based on vinyl acetate and ethylene. After evaporation of its water content, DA-103 forms a flexible film with best adhesive properties for broad applications.

In generally, DA-103 is used as general adhesive for packaging, bookbinding, and bonding for plastic films, coated papers.

Furthermore, DA-103 is broadly used as a particularly suitable base emulsion for the formulation of adhesives for difficult substrates, such as lacquered surfaces, foils and plastic films in the packaging and paper industry.

DA-103 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-103 and suitable applicative industrial formulations. Besides, DA-103 is very friendly product for our environment.

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

Compatibility with different tackifiers, plasticizers, solvents and extenders is generally good, although this has to be checked in each individual case of course.

## RECOMMENDED APPLICATIONS

As mentioned before, DA-103 provides a soft and flexible film to porous and non porous substrates of all kind of common plastic materials.

If at least one substrate is porous, aqueous formulations can be used for directly bonding the substrates, while plastic/plastic, film/film or film/lacquered surfaces afford application of the emulsion (or its formulation) onto one substrate and intermediately drying, followed by sealing the other non-polar substrate. Depending on the machinery, of course such a sealing process could be used also bonding non-polar substrates to polar ones.

The popular use of DA-103 is for bonding difficult substrates, like

- plastic- (specially PVC-) or metal films to substrates of all kind
- printed paper, lacquered paper and board
- plastic materials to porous or even non-porous substrates
- ceramic tiles to cementitious substrates

As DA-103 is compatible with cement, we can reinforce waterproofing capability of cementitious compounds formulated with our product.

## SAFETY & STORAGE

In general, DA-103 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-103 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-103 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-103 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-103 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](http://www.dcc.com).

#### PACKAGING

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

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