



## Technical Data Sheet

Name: <b>DA-102 VAE Emulsion</b>	Company: MIT-IVY INDUSTRY Co., Ltd.	
CAS: 24937-78-8	Revision Date: 2019-05-22	
<b>PRODUCT SPECIFICATIONS</b>		
Inspection Method Value		
Solids content	DCC method	55 % min.
Viscosity at 25 °C	DCC method	2500 - 3700 mPa.s
pH	DCC method	4.5- 6.5
<b>TYPICAL PROPERTY</b>		
Inspection Method Value		
Film Appearance	DCC method	Clear, glossy
Tg	DCC method	0 °C
Stabilizing System	DCC method	Polyvinyl Alcohol
<b>INTRODUCTION</b>		
<p>DA-102 is a non-plasticized aqueous milky whit copolymer dispersion based on vinyl acetate and ethylene. After evaporation of its water content, DA-102 forms a flexible film with best adhesive properties for broad applications.</p> <p>In generally, DA-102 is used as general adhesive for packaging, bookbinding, and bonding for plastic films, coated papers.</p> <p>Furthermore, DA-102 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.</p> <p>DA-102 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-102 and suitable applicative industrial formulations. Besides, DA-102 is very friendly product for our environment.</p> <p>From the viewpoint of industrial applications, the compatibility of raw materials is considered important to manufacturers.</p> <p>Compatibility with different tackifiers, plasticizers, solvents and extenders is generally good, although this has to be checked in each individual case of course.</p>		



**RECOMMENDED APPLICATIONS** : As mentioned before, DA-102 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-102 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-102 is compatible with cement, we can reinforce waterproofing capability of cementitious compounds formulated with our product.

**SAFETY & STORAGE** : In general, DA-102 is considered safe for its intended use. However, as this class of products always contains minor amount of residual vinyl acetate monomer, adequate ventilation is recommended in rooms where DA-102 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-102 should be stored in sheltered areas at temperatures between 5 and 40 °C; do never store under freezing conditions. Opened containers should be closed soon to prevent skinning. It is recommended to use the emulsion within 6 months. Finished products manufactured from polymer emulsions usually also require preservation.

**ADDITIONAL INFORMATION:** When DA-102 is used in application we do not mention, the usage of DA-102 is the responsibility of purchaser.

The usage and processing must be complied with related legal regulations.

Our product conforms to the food contact clearance:

FDA 175.105

FDA 176.170

FDA 176.180

BfR XIV



— MIT-IVY —

**MIT-IVY INDUSTRY CO.,LTD**

**DA-102 VAE Emulsion**

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The information provided here is for reference only. The specification will be provided in the quality certificate or in the contract. It is the user's responsibility to test the material and its suitability for a process. We have no control over what another party does with the material and we cannot take any responsibility for another party's action. Nor will we be responsible for any indirect damages while using our products. The user is welcome to contact our customer and technical service center with questions on our products.

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### **For further information please contact us:**

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