Technical Datasheet (DA-143)

PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Inspection Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solids content</td>
<td>DCC method</td>
</tr>
<tr>
<td>Viscosity at 25 °C</td>
<td>DCC method</td>
</tr>
<tr>
<td>pH</td>
<td>DCC method</td>
</tr>
</tbody>
</table>

- **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

<table>
<thead>
<tr>
<th>Inspection Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Film Appearance</td>
<td>Visual Clear, glossy</td>
</tr>
<tr>
<td>Tg</td>
<td>DCC method 0 °C</td>
</tr>
<tr>
<td>Stabilizing System</td>
<td>Polyvinyl Alcohol</td>
</tr>
</tbody>
</table>

INTRODUCTION

DA-143 is a non-plasticized aqueous milky white copolymer dispersion based on vinyl acetate and ethylene. After evaporation of its water content, DA-143 forms a flexible film with best adhesive properties for broad applications.

In generally, DA-143 is used as general adhesive for packaging, bookbinding, and bonding for cigarette papers.

It shows good resistance against aging, light or saponification. As a result, the durability of your products could be enhanced with usage of DA-143 and suitable applicative industrial formulations. Besides, DA-143 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-143 provides a soft and flexible film to porous substrates of all kind of common materials.

The popular use of DA-143 is for bonding different substrates, like
- cigarette papers
- printed paper
- lacquered paper

SAFETY & STORAGE

In general, DA-143 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-143 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-143 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-143 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-143 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.
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