Technical Datasheet (DA-691)

DA-691 is designed especially for the wood applications. It possesses the crosslinking ability due to the polymer composed of crosslinkable unit. It, therefore, provides the good resistance against water and saponification.

Generally speaking, the wood applications claim for the high bonding strength to maintain the adhesion between the woods. A good wood glue are asked for the properties described above.

As a result, it is recommended DA-691 to the wood adhesive meeting the D4 classification standard of European EN204 Standard. DA-691 is suggested to use in poly-MDI system as wood glue applied for wood industry.

The high bonding strength is developed by the crosslinking between the crosslinkable unit of DA-691 and isocyanate group of MDI.

SAFETY & STORAGE

In general, DA-691 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-691 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-691 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-691 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-691 is adequately preserved to prevent microbial contamination. However, if the product is kept

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### 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>

### TYPICAL PROPERTY

<table>
<thead>
<tr>
<th>Inspection Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Film Appearance</td>
<td>Visual</td>
</tr>
<tr>
<td>Tg</td>
<td>DCC method</td>
</tr>
<tr>
<td>Stabilizing System</td>
<td>Polyvinyl alcohol/ Surfactants</td>
</tr>
</tbody>
</table>

### INTRODUCTION

DA-691 is a non-plasticized aqueous milky white cross-linkable copolymer dispersion based on vinyl acetate and ethylene. After evaporation of its water content, DA-691 forms a flexible and soft film.

It is a preferred raw material for EPI wood glue systems as wood applications. Bonding strength of compounded DA-691 with poly-MDI on wood application meet D4 classification standard of European EN204 Standard.

It shows good resistance against water and saponification.

In general, the compatibility with different emulsions, plasticizers, and extenders is generally good.

DA-691 readily accepts high load of fillers, like calcium carbonate, clay, shell- or wood flours. Viscosity can be increased by blending in PVA or HEC solution. Also polyurethane / polyacrylic based associative thickeners can be recommended without negative side effects.

DA-691 is miscible with all others non-ionic and protective colloid stabilized DA-products of our range, but trials should always be carried out. Dry films may become hazy by mixing different polymers with different refractive indices.
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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