Technical Information

Acronal® V 215
Adhesive Raw Materials

Chemical nature
Aqueous dispersion of an acrylate copolymer containing carboxyl groups

Technical data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solids content</td>
<td>approx. 69 %</td>
</tr>
<tr>
<td>pH</td>
<td>approx. 3.5–6</td>
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<tr>
<td>Viscosity</td>
<td>approx. 200–1000 mPas</td>
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<tr>
<td>Glass transition</td>
<td>approx. –43 °C</td>
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</tbody>
</table>

For detailed information see Specifica-
tion Data-Sheet.

Application area
Acronal V 215 is used in the manufacture of adhesives for self-adhesive articles. The products feature good adhesive properties, even at low temperatures, as they are relatively insensitive to water and adhere very well, without an adhesion promoter, to plasticized and unplasticized PVC films, polyester films, and electrically pre-treated polyethylene and polypropylene films.

Processing
If Acronal V 215 is to be mixed with another dispersion, the pH should be adjusted to the slightly alkaline range. Note that the viscosity increases when the pH is raised.

The mechanical stability of the formulation can be improved by adding a small quantity of Collacral® VAL. In the event of poor wetting, it is often helpful to add about 0.5 % of a wetting agent (e.g. Lumiten® I-SC). Commercially available antifoaming agents (e.g. Lumiten E-L) are suitable for suppressing foam. Usually the addition of 0.05–0.2 % of the antifoaming agent in the formulation is sufficient.

We recommend adding a preservative to adhesives based on Acronal V 215 to protect them from microbial attack. The suitability of such additives must be verified and monitored in trials.

Adhesives based on Acronal V 215 can be applied using commonly available application devices such as flat blade, Meyer-bar, air brush, reverse roll, reverse gravure, curtain-coater and nozzle.

Manufacturers must carefully carry out their own experimentation when developing pressure-sensitive adhesives based on Acronal V 215, as there is a host of factors in production and processing that we cannot cover exhaustively in our trials which can influence compatibility with other components of the adhesives, their wetting of and adhesion to different substrates etc. Where adhesives are formulated for removable labels, it is important to pay attention to their problem-free removal from all relevant substrates after an extended period.

BASF SE
Regional Business Unit
Dispersions for Adhesives, Construction & Paper Europe
67056 Ludwigshafen, Germany

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