Adhesives and Graphic Arts

A Break Through in Soft Touch

NeoRez® R-1010

NeoRez® R-1010 is used as a special soft feel and matt effect coating on printing substrates or as an overprint varnish. NeoRez® R-1010, in combination with alkaline soluble resins, results in out-standing print performance with enhanced soft feel properties in the overprint varnish application. The chemical resistance can be further enhanced by using crosslinkers such as Crosslinker CX-100 or suitable isocyanates.

Overprint varnishes

The product is applied as a base resin for overprint varnishes in specialty packagings to obtain a special effect. To improve the substrate wetting and transfer properties, the products need to be properly formulated. In the application booklet* a formulation is shown based on NeoRez® R-1010 in combination with NeoCryl® BT-9.

Film coatings

Not only on paper & board but also on plastic film NeoRez® R-1010 has raised great interest. Film producers have initiated marketing surveys with this product in many areas. For proper adhesion on plastic film, it needs a primer (e.g. NeoRez® R-600) or in combination with other resins (e.g. NeoCryl® XK-96).

Recommended areas of use

The soft feel and matting properties of NeoRez® R-1010 make it best suitable for use in special effect coatings to luxury goods. It can be combined with NeoCryl® BT-9 to improve print performance and softness.

Novel Features of NeoRez® R-1010

- NeoRez® R-1010 offers a unique combination of a soft feel and a matt finish
- NeoRez® R-1010 is non NMP and non APE based
- NeoRez® R-1010 has good chemical resistance which can be improved further by use of suitable cross-linkers like Crosslinker CX-100

Typical properties

<table>
<thead>
<tr>
<th>Typical properties</th>
<th>Anionic, self crosslinking acrylic copolymer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Milky white liquid</td>
</tr>
<tr>
<td>Total solids, by weight</td>
<td>32.0</td>
</tr>
<tr>
<td>pH (@25°C)</td>
<td>8.00</td>
</tr>
<tr>
<td>Viscosity, Brookfield, CPS@ 25°C</td>
<td>600</td>
</tr>
<tr>
<td>Specific gravity of solids, 25°C</td>
<td>1.05</td>
</tr>
<tr>
<td>Freeze/thaw stability</td>
<td>Protect from freezing</td>
</tr>
</tbody>
</table>

Atomic Force Microscopy picturing the particles responsible for giving the unique soft feel and matting effects.

* Can be ordered via your DSM contact

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