New Polyurethane Dispersion (PUD) solution with sustainable initial heat resistance
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**Background**

Traditional one component polyurethane dispersion usually faces issues of decomposition during long time storage.

The newly developed Dispercoll® U58/1 PLUS inherits the basic features from Dispercoll® U58 /1 used in the two component system for qualified bonding properties in terms of:

**Basic property**
- Bonding strength
- Heat resistance
- Hydrolysis resistance
- Broader substrate adaptation
- Quality consistency
- Better brushability leading to brush smoothly adhesive

**While with unique property**
- Longer storage stability which can achieve
  - 200 more days at 23 °C
  - 30 more days at 40 °C

### Initial heat resistance @ r.m.

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>US8/1</th>
<th>US8/1 PLUS</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-volatile content (1g/1h/125)</td>
<td>%</td>
<td>49-51</td>
<td>49-51</td>
<td>DIN EN ISO 3251</td>
</tr>
<tr>
<td>Viscosity at 23, Spindle L2/30rpm</td>
<td>mPa.s</td>
<td>&lt;1200</td>
<td>&lt; 1000</td>
<td>DIN 53019</td>
</tr>
<tr>
<td>pH</td>
<td></td>
<td>6.0-9.0</td>
<td>6.0-9.0</td>
<td>DIN ISO 976</td>
</tr>
<tr>
<td>Surface temperature</td>
<td>°C</td>
<td>50~70</td>
<td>50~70</td>
<td></td>
</tr>
<tr>
<td>Storage temperature</td>
<td>°C</td>
<td>15~25</td>
<td>15~30</td>
<td></td>
</tr>
</tbody>
</table>