Increasing productivity and economic efficiency: Pasquick® polyaspartic technology in industrial applications
Desmophen® NH, Desmodur® N

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The challenge: increased productivity
Productivity is a very important factor in reducing process costs in the agricultural, construction and earthmoving equipment (ACE) and other industries. In close cooperation with our coating solutions’ manufacturer, we can answer these industries’ needs and improve their customers’ paint processes.

The solution: Pasquick® polyaspartic technology
Pasquick® is the brand name for our polyaspartic technology. Polyaspartics are a class of binders for high-quality, aliphatic 2K topcoats based on the Desmophen® NH and Desmodur® N product groups. Since they can be applied at high film thicknesses, a reduction in the number of layers is possible, making the coating process more economical. Depending on the substrate, even single-layer direct-to-metal (DTM) coatings can be considered.

Since Pasquick®-based coatings also cure quickly at room temperature, they are ideally suited to increasing the productivity of painting operations. And increased productivity helps to make the coating process more economical for the applicator. For example, energy costs are lower since the fast drying at room temperature means no stoving in a curing oven is required. Furthermore, the Pasquick® polyaspartic technology is suitable for the formulation of ultra-high solids.

The most suitable Desmophen® NH aspartic products for industrial coatings

<table>
<thead>
<tr>
<th>Product</th>
<th>Equivalent weight</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Desmophen® NH 1420</td>
<td>278</td>
<td>Medium Reactivity</td>
</tr>
<tr>
<td>Desmophen® NH 1423</td>
<td>272</td>
<td>Medium Reactivity*</td>
</tr>
<tr>
<td>Desmophen® NH 1520</td>
<td>290</td>
<td>Low Reactivity</td>
</tr>
</tbody>
</table>

* Better gloss retention than Desmophen® NH 1420.

Numerous practical examples of coating applications have proven the advantages of this technology over the past 15 years or more.

The crosslinkers that best fit these products are Desmodur® ultra N 3600 and Desmodur® N 3900.

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