Dynasylan® 1146 – Aminosilane

High Performance Adhesion Promoter for Adhesives and Sealants

Suitable for systems such as:

- MS Polymer®
- Silane modified polyurethane/polyether
- RTV-1/RTV-2 silicones
- Butyl rubber

The crucial BENEFITS that Dynasylan® 1146 brings to your products:

**Excellent adhesion performance**

With Dynasylan® 1146, an excellent adhesion performance of your adhesive/sealant on a wide variety of important construction substrates can be realized. This is partly accompanied with better wet adhesion, too.

<table>
<thead>
<tr>
<th>Hybrid MS Polymer® sealant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesion / %</td>
</tr>
<tr>
<td>Aluminium</td>
</tr>
</tbody>
</table>

100 90 80 70 60 50 40 30 20 10 0

- Standard diaminosilane
- Dynasylan® 1146

**Easy application**

Based on improvements in adhesion performance there is no need for the addition of a special primer anymore. This makes using adhesives or sealants that were formulated with Dynasylan® 1146 so much easier.
Reduced water uptake

Mainly sealants that contain Dynasylan® 1146 show strongly reduced water absorption. Thus the sensitive interface between your adhesive or sealant with the substrate is protected against water attack or penetration.

<table>
<thead>
<tr>
<th>Water uptake / %</th>
<th>0</th>
<th>0,2</th>
<th>0,4</th>
<th>0,6</th>
<th>0,8</th>
<th>1</th>
<th>1,2</th>
<th>1,4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage in water</td>
<td>3</td>
<td>7</td>
<td>14</td>
<td>21</td>
<td>28</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Higher efficiency and reduced VOC

Compared to other commonly used diaminosilanes, less Dynasylan® 1146 is consumed during the manufacturing process due to its reduced volatility. Moreover, Dynasylan® 1146 produces approx. 30 % less VOC leading to less odor and improved product safety. Both are good news for hygiene and for costs.

Non-sensitizing – no special allergenic health labelling required

Health and environmental regulations are becoming more and more stringent. In a study it has been confirmed, that the multifunctional silane Dynasylan® 1146 is not skin-sensitizing. Thus no special allergenic health labelling is required on the adhesive or sealant cartridge, drum, or sausage.