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.

**Hybrid MS Polymer® sealant**

<table>
<thead>
<tr>
<th>Adhesion / %</th>
<th>Aluminium</th>
<th>Steel</th>
<th>Glass</th>
<th>Concrete</th>
<th>PVC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard diaminosilane</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynasylan™ 1146</td>
<td></td>
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</tbody>
</table>

**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.

Reduced water uptake

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

For this test, the fully cured hybrid sealant specimen were stored in water @ 23°C.

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.

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