ENHANCEMENT. WITH HDK®.

At WACKER, we continuously improve the quality of our products based on customers' needs. With the hydrophilic HDK® V16, we have added a new solution to our much-valued range of HDK® sealant additives. The main benefit of using HDK® V16 is a higher thickening effect in sealants. Furthermore, shorter incorporation times can be realized, depending on formulation and equipment. At the same time, HDK® V16 comes with the same physicochemical properties as the widely used HDK® V15A.

HDK® is a registered trademark of Wacker Chemie AG.
The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies’ raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties’ rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

Advantages of HDK® V16

- Significantly higher thickening effect vs. other HDK® sealant grades
- Provides adequate reinforcement properties for rubber and RTV applications
- Potentially shorter incorporation time vs. other HDK® sealant grades (subject to customer equipment)
- Improved visual appearance of endproduct (subject to smooth incorporation)
- Balanced thixotropy, reinforcement, and dispersibility

HDK® V16 is also available as a higher density version: HDK® V16D.

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**Comparison of physicochemical properties**

<table>
<thead>
<tr>
<th></th>
<th>HDK® V16</th>
<th>HDK® V16D</th>
<th>HDK® V15A</th>
</tr>
</thead>
<tbody>
<tr>
<td>BET m²/g</td>
<td>130–170</td>
<td>130–170</td>
<td>130–170</td>
</tr>
<tr>
<td>pH value</td>
<td>3.8–4.3</td>
<td>3.8–4.3</td>
<td>3.8–4.3</td>
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<tr>
<td>Loss on drying %</td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
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<tr>
<td>Tamped density g/l</td>
<td>approx. 50</td>
<td>approx. 70</td>
<td>approx. 50</td>
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<tr>
<td>SiO₂ content %</td>
<td>&gt;99.8</td>
<td>&gt;99.8</td>
<td>&gt;99.8</td>
</tr>
</tbody>
</table>

A 10% higher thickening effect and a 15% higher yield point are observed if HDK® V16 is used instead of HDK® V15A.

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**Silicone sealant formulation with 8.5% HDK®**

![Graph showing low shear viscosity and yield point comparison for HDK® V15A and HDK® V16.]

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**Pyrogenic Silica with Personalized Service**

Profit from decades of experience, our vertically integrated production, and hands-on technical expertise. We help you find the perfect solution for your specific requirements, be it by modifying a product or testing and analyzing different dosages of HDK® to your carrier medium. Should you have any questions or need assistance, our technical support team will be happy to advise you. Simply contact us at the address given below.

For more information visit: [www.wacker.com/hdk](http://www.wacker.com/hdk)

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