SiliXan® Cat 110

Type
Aluminium compound

Form supplied
Solution in butyl glycol - butyl diglycol acetate (50-50)

Uses
Curing and drying catalyst for urethanes with silicon alkoxy groups (product class SiliXan U). Additive for epoxy or methacrylate modified systems based on SiO₂ (silica/siloxane). Additive for water or solvent based coatings with binder class SiliXan M, W or T in order to increase abrasion resistance, chemical resistance and adhesion by improved crosslinking and drying speed.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Property</th>
<th>Value</th>
<th>Unit of measurement</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Apha color</td>
<td>350 - 500</td>
<td>-</td>
<td>DIN ISO 6271</td>
</tr>
<tr>
<td></td>
<td>Viscosity at 23°C</td>
<td>17 ± 1,5</td>
<td>mPa*s</td>
<td>ISO 2555 (L1, 200 U/min)</td>
</tr>
<tr>
<td></td>
<td>Water content</td>
<td>≤ 0,1</td>
<td>%</td>
<td>ISO 760</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Other data</th>
<th>Property</th>
<th>Value</th>
<th>Unit of measurement</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Density at 23°C</td>
<td>0,90 ± 0,02</td>
<td>g/ml</td>
<td>DIN 12791 ISO 649</td>
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<tr>
<td></td>
<td>Flash point</td>
<td>29</td>
<td>°C</td>
<td>DIN ISO 3679</td>
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<tr>
<td></td>
<td>Active agent</td>
<td>10 ± 1</td>
<td>%</td>
<td></td>
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</tbody>
</table>

Drying conditions
Moisture curing at room temperature in particular for SiliXan U binder.
Forced drying at temperatures between 40 °C and 200°C respectively 250°C shortly.

Solubility / thinnability
SiliXan Cat 110 can be thinned with alcohols, esters, ether esters, ketones, xylene and toluene.
The additive can be diluted partially with water or added to aqueous systems under stirring. Temporary turbidity or flakes may occur which dissolve again.

Compatibility
Good compatibility with binders of the classes SiliXan U, M, W and T.
SiliXan Cat 110 is compatible with resins and binders based on free or blocked isocyanates. With OH-containing polyesters or acrylates gelation may occur. Hence for two-pack PU systems is recommended to formulate the additive into the isocyanate component.
Good compatibility with silicone resin coatings.
Storage
The shelf life of the product is 6 months, provided the original container is stored tightly closed at +15 to +25 °C. Opened containers should be processed shortly. The expiry date of each batch appears on the product label. Storage beyond the indicated period does not necessarily mean that the product is useless. However, in this case a review of the properties for the respective application is essential for reasons of quality assurance.

Safety
Please find the most important information on labeling, transport and storage as well as on handling, product safety and ecology in the latest safety data sheet. During processing appropriate personal protective equipment must be ensured.

Registration status
SiliXan Cat 100 has following listings.
- EINECS mixture
- CAS-No. mixture
- REACH status mixture
- REACH registration raw materials pre-registered
- TSCA (USA) yes
- ECL (Korea) yes
- ENCS (Japan) yes

Packaging
- 5L can
- 30L drum
- 200L drum

Subject to technical modifications and amendments. The above-mentioned details reflect the criteria regarding our quality inspections. They do not constitute any legal assurance of particular product features or of the suitability for a specific application. All of the values are applicable at the time when the product leaves the supplier’s factory. The values stated are reference points, they are subject to being continually updated within the scope of product maintenance. A written sales agreement shall be required for the information concerning product specifications to have a binding character. Please refer to our warning notices, our product information sheets and safety data sheet. Should you require further information and technical advice, our Applications Engineering Department and the relevant R&D Department are at your disposal.

Our product information and application technology consultancy whether communicated orally, in writing or by means of tests, are in accordance with the current status of the knowledge and experience gained by us. We reserve the right to modify and update our products within the scope of technical progress and further developments within the company. This information is provided without engagement. The sole purpose of such information is to provide details on the properties of our products and their potential applications. It does not constitute any guarantee and is not intended to be an assurance of any particular properties or suitability for a specific application. The client or user is thereby not exempt from carrying out his/her own testing to determine the suitability for the intended processes, purposes and applications by members of staff with the appropriate qualifications. This also applies with regard to the protection of proprietary rights of third parties. Brand or trade names of other companies are mentioned merely by way of example and do not constitute any endorsement, the use of other products of the same nature is not excluded.