Silanes & Silicones for RTV-1 sealant compounding

SiSiB SILICONES - A part of PCC group.

Your Reliable Partner in the Silicone Field!
SiSiB® SILICONES for RTV-1

- Catalyst
- OH Polymers
- Silane Adhesion Promoters
- Silane Crosslinkers
- Fumed Silica
SiSiB® SILICONES for RTV-1
Silicone OH Polymers

Silanol end-capped Polydimethylsiloxane

Low viscosity fluids (SiSiB® OF0025, PF1070, 25cSt. – 750cSt.)
Middle viscosity fluids (SiSiB® PF1070, 1000cSt. - 10000cSt.)
High viscosity fluids (SiSiB® PF1070, 20000cSt. - 150000cSt.)

Silanol end-capped silicone polymers are used for the manufacturing of:
a. condensation cured RTV-2 systems;
b. RTV-1 adhesives and sealants.
SiSiB® SILICONES for RTV-1

Adhesion Promoters

- Amino Silane
- Epoxy Silane
- Isocyanate Silane
- Mercapto Silane
- Methacrylate Silane
- Phenyl Silane
- Thiocyanato Silane
- Ureido Silane
- Vinyl Silane
SiSiB® SILICONES for RTV-1

Crosslinking Agents

Acetoxy Silane
- PC7930 MTA
- PC7950 ETA
- PC7960 VTA
- PC7970 PTA

Oximino Silane
- PC7130 MOS
- PC7500 VOS
- PC7400 TOS
- PC7600 POS
- PC7133 M-MIBKO
- PC7530 V-MIBKO
- PC7410 T-MIBKO

Alkoxy Silane
- PC5131 MTMS
- PC5132 MTES
- PC5420 TEOS
- PC5424 TEOS-40
- PC5430 TPOS
Hydrophilic Fumed Silica

<table>
<thead>
<tr>
<th>Fumed Silica</th>
<th>BET surface area [m²/g]</th>
<th>Loss on drying [wt.%]</th>
<th>pH value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SiSiB® FS0150</td>
<td>150 +/- 15</td>
<td>Max. 1.0%</td>
<td>3.6-4.3</td>
</tr>
<tr>
<td>SiSiB® FS0200</td>
<td>200 +/- 15</td>
<td>Max. 2.0%</td>
<td>3.6-4.3</td>
</tr>
</tbody>
</table>

SiSiB® PC9210 HMDZ
It can be used as hydrophobing agent for fumed silica.

\[
\begin{align*}
    &CH_3 & &CH_3 \\
    &H_3C-Si-N-Si-CH_3 & &CH_3 \\
    &CH_3 & &CH_3 
\end{align*}
\]
SiSiB® SILICONES for RTV-1

Tin Catalyst

PowerCat™ DBTDL, CAS 77-58-7, Dibutyltin Dilaurate

\[
\begin{align*}
\text{H}_3\text{C}(\text{H}_2\text{C})_{10}\text{C} & \quad \text{O} \\
\text{Sn} & \quad \text{O} \\
\text{O} & \quad \text{C} \\
(\text{CH}_2)_3\text{CH}_3 & \\
(\text{CH}_2)_3\text{CH}_3 & \\
\end{align*}
\]

PowerCat™ DBTDA, CAS 1067-33-0, Dibutyltin Diacetate

\[
\begin{align*}
\text{H}_3\text{C} & \quad \text{C} \\
\text{O} & \quad \text{Sn} \\
\text{O} & \quad \text{C} \\
(\text{CH}_2)_3\text{CH}_3 & \\
(\text{CH}_2)_3\text{CH}_3 & \\
\end{align*}
\]
PCC group is established in 1989.

With over 26 years experience, now PCC/SiSiB is one of the leading professional silicone material producers.

PCC have 7 joint ventures (factories) for silicone related. One major intermediates production site for upstream applications and six downstream production units.

Annual capacity:
- 30,000 tons organosilanes.
- 15,000 tons silicone fluids.
- 23,000 tons silicone rubbers.
- 10,000 tons fumed silica.