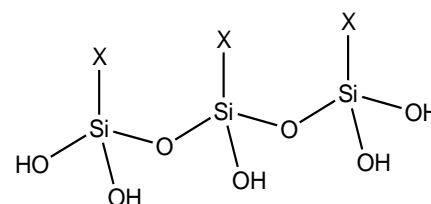
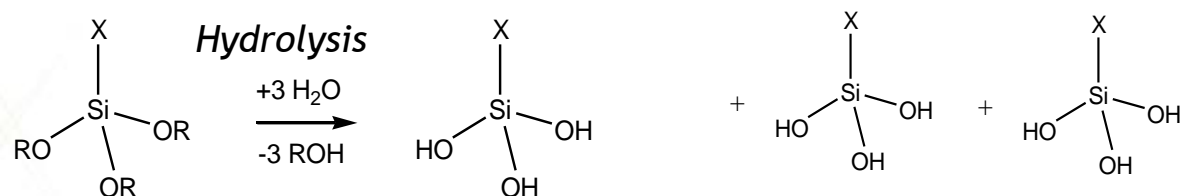


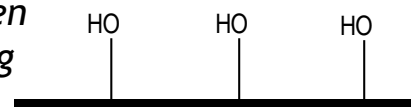


Silicones & Silanes for sealant compounding

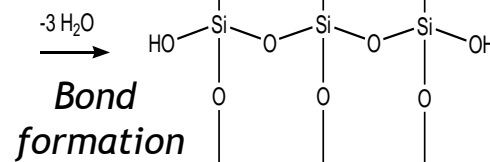
Chemistry of Silane Bonding to Inorganic Substrates



Hydrogen bonding



substrate



Bond formation

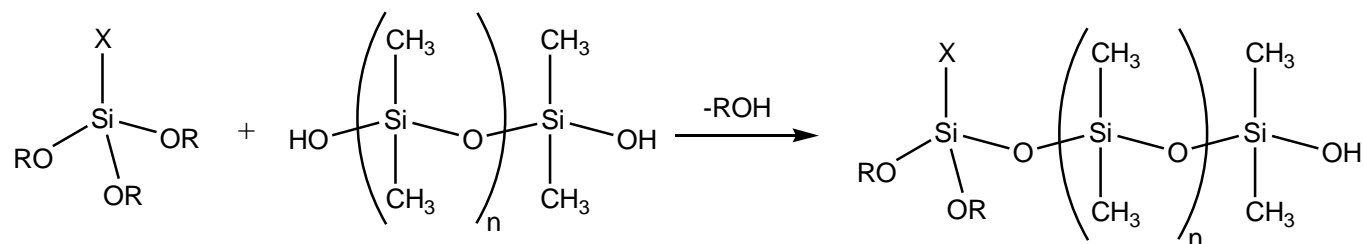


substrate

OR = alkoxy
acetoxy
oxime
acetone

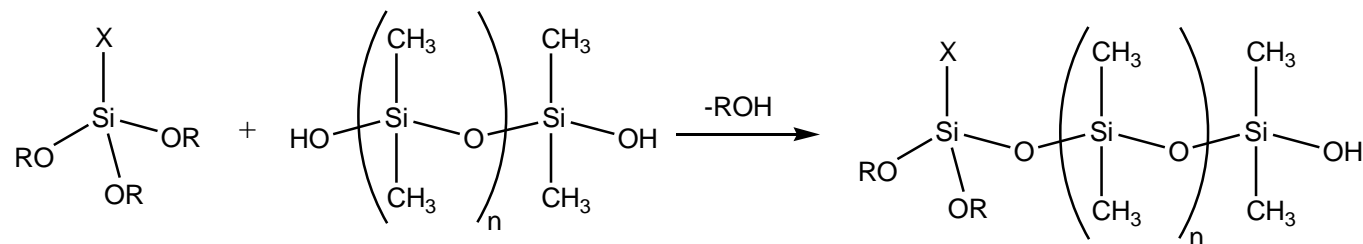
X = organofunctional
group
e.g. -vinyl, -
phenyl,
-glycidoxy, -
methacryloxy,
-alkyl, -amine

Chemistry of Silanes in RTV-1 Crosslinkers



-OR	By-product	Advantages	Disadvantages
Oxime Mos/Vos	Methylethylketoxime	Good adhesion to plastics Low corrosive	H&S issues Low exposure levels
Acetoxy MTAS ETAS	Acetic acid	Good adhesion Stable up to 300 °C Fast cure	Corrosive Pungent odor
Alkoxy	Alcohol	Good adhesion Non-corrosive	Slow cure Only stable up to 220 °C

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BRB Products for RTV-1 Sealant Production

- 1. Acetoxy sealants**
- 2. Alkoxy Sealants**
- 3. Oxime Sealants**
- 4. MS-Polymer Sealants**

1. Acetoxy sealants

A: 100% Silicone Sealant General purpose

- BRB OH Fluid 80,000 cSt → 60-80%
- BRB Silicone Oil 1,000 cSt → 10 - 20%
- BRB Silanil MTAS → 5 - 10%
- BRB DBTDL → 0.2 -1%
- Third party fumed Silica → 10%

Optional adhesion Promoter: BRB Silanil
BDAC

1. Acetoxy sealants

B: Extended Silicone Sealant General purpose

- **BRB OH Fluid 80,000 cSt → 40-60%**
- **Third party solvent plasticizer → 20 - 40%**
- **BRB Silanil MTAS → 5 - 10%**
- **BRB DBTDL → 0.2 -1%**
- **Third party fumed Silica → 10%**

Optional adhesion Promoter: BRB Silanil BDAC

2. Alkoxy sealants

- **BRB OH Fluid 20,000 cSt and 80,000 cSt**
- **BRB Silicone Oil 500 cSt**
- **Third party coated calcium carbonate**
- **BRB Silanil 118**

Optional adhesion Promoter: BRB Silanil 919

3. Oxime Sealants

Neutral cure all Weather Purpose

- BRB OH Fluid 80,000 cSt → 30 -40%
- BRB Silicone Oil 100 cSt → 5-10%
- Third party coated calcium carbonate → 40-50%
- BRB Silanil MOS and VOS → 3-4%
- BRB DBTDL → 0.2 - 1.0%

Optional adhesion Promoter: BRB Silanil
919

4. MS-Polymer

X-linker and adhesion promoter for MS-Polymer

- **BRB Silanil 118**

**Optional adhesion Promoter: BRB Silanil 138
BRB Silanil 276**

What BRB offers

- 1. Full range of siloxane and silane products**
- 2. Formulation help**
- 3. Only raw material supplier, not competing with sealants in the market**
- 4. Flexible supply from regional warehouse**
- 5. Competitive prices for continuous sustainable growth**



Powerful like a major, flexible like a formulator

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BRB has more than 10 locations worldwide from which we supply our markets and meet our customer's needs. Get in contact with us by scanning this code.