

## EGOSILICON 310 FIRE PROTECTION

is a ready-to-use, tested, high-quality 1-component silicone sealant that vulcanizes into an elastic end product via reaction with atmospheric moisture.

### CHARACTERISTICS

**The product is characterized by the following properties:**

flame-retardant · free from 2-butanone oxime [MEKO] and methyl isobutyl ketoxime [MIBKO] · fungicide · neutral cross-linking [Oxim]  
no burning fall-off/dripping · no smoke · weather, ageing & UV-resistant

### APPLICATION AREAS

EGOSILICON 310 is suitable for fire-resistant and fire-retardant glazing and joint sealing. EGOSILICON 310 was tested acc. to DIN 4102 (building material class B1 flame retardant) as well as in accordance with DIN EN ISO 11925-2 (complies with the European requirements of building material class B-s1, d0 according to DIN EN 13501-1). Furthermore, the product has achieved the fire index BKZ 5.3 when tested acc. to the "Guidelines for Fire Regulations: Building Materials and Components" of the Association of cantonal fire insurance companies (VKF).

**Areas of application:**

electrical engineering · facade · fire protection · transportation

**Good adhesion to:** [please note primer table]

concrete · glass · metal

**Not or only conditionally suitable on:** [own tests assumed and recommended]

black coatings · EPDM · non-ferrous metals · PE · PP · substrates containing bitumen, wax and kerosene · teflon

### APPLICATION NOTES

- 1 Adhesion surfaces must be clean, dry, load-bearing and free from dust and substances liable to impair adhesion.
  - 2 Clean with EGO REINIGUNGSSPRAY.®
  - 3 In order to obtain optimum adhesion use EGO PRIMER FDF on porous substrates, EGO PRIMER FWS on rigid PVC and EGO PRIMER FML or EGO HAFTREINIGER on suitable metals, acrylics and polycarbonate (see Primer Chart).®
  - 4 In case of brightly painted surfaces provide sufficient ventilation (risk of yellowing caused by cleavage products)
  - 5 EGOSILICONE 310 is hardly inflammable (DIN 4102 B1) between massive, mineral building materials > 1500 kg/m<sup>3</sup>.
- \* Notes:
- Select cleaner depending on the substrate.
  - Do not prime glass and glass-like surfaces.
  - Own tests or consultation recommended.

### STANDARDS AND TESTS

**EGOSILICON 300 corresponds to the:**

**Standards according to:**

- DIN 18540
- DIN EN ISO 11600 F 25 LM
- DIN EN ISO 11600 G 25 LM
- DIN EN 15651-1 F 25 LM EXT-INT-CC
- DIN EN 15651-2 G 25 LM CC
- DIN 52452-4 A1 compatible with paint

**IVD data sheets:**

- Nr. 11, 19-1, 24, 29, 31, 35

**The following tests were achieved by EGOSILICON 310:**

**European conformity:**

- CE marking Declaration of Performance LE/DoP No. EG03310314

**Test certificate:**

- for proof of fire behavior according to DIN 4102 Part 1

**Classification report:**

- on the fire behavior of building products according to DIN EN ISO 11925-2 (DIN EN 13501-1)

**Fire index:**

- BKZ 5.3 (low flammability / low quality)

**Test according to:**

- „Guidelines for fire police regulations: Building materials and components“ of the Association of Cantonal Fire Insurers (VKF)

### SUSTAINABILITY

**VOC requirements:**

- AgBB scheme
- French VOC class A+ and KMR regulation
- LEED® EQ c4.1

**Seal of quality:**

- IVD-Industrieverband Dichtstoffe e.V. - tested by ift-Institut für Fenstertechnik e.V. Rosenheim

### SUSTAINABILITY

#### Environmental Product Declaration (EPD):

- Sample EPD (Silicone-based products, group 1)



\*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions)

### TECHNICAL DATA

Specifications	Results	In accordance with
Cross-linking system	neutral (Oxime)	
Density	approx. 1.4 g/cm <sup>3</sup>	DIN EN ISO 1183-1
Application temperature	from +5 °C to +40 °C	
Temperature resistance	-60 °C to +150 °C	
Shore A hardness	approx. 25	DIN EN ISO 868
Spray-out behavior	approx. 280g/min (6mm; 3bar)	DIN EN ISO 8394-1
Modulus / tensile stress 100%	approx. 0.4 N/mm <sup>2</sup>	DIN EN ISO 8339
Volume shrinkage	< 10%	DIN EN ISO 10563
Resilience	approx. 100 %	DIN EN ISO 7389
Allowable total deformation	25%	
Viscosity	stable	DIN EN ISO 7390
Skin formation time	approx. 15-30 minutes (23°C/50% rel. LF)	
Vulcanization	approx. 2 mm/24 hours	
Ignition temperature	approx. 450 °C	DIN 51794
Building material class	B1, flame retardant B-s1, d0 flame retardant, no smoke, no burning droplets/droplets	DIN 4102 DIN EN 13501

### AVAILABILITY AND STORAGE

Colors	white, manhattan, anthracite [see color chart]
Packaging	<ul style="list-style-type: none"> <li>310 ml cartridges (20 pieces/carton, 60 cartons/pallet)</li> <li>Special containers on request</li> </ul>
Storage	Can be stored cool and dry in original packaging: <ul style="list-style-type: none"> <li>18 months [cartridges]</li> <li>24 months [foil bags]</li> </ul> Das Produktions- oder Mindesthaltbarkeitsdatum entnehmen Sie dem Gebindeaufdruck.

### SAFETY INSTRUCTIONS

Complies with	Regulation (EC) No 1907/2006 (REACH)
Not hazardous according to	Regulation (EC) No 1272/2008 (CLP)
Not subject to labeling according to	Regulation (EC) No 1272/2008 (CLP)
Safety instructions	see SDS
Disposal instructions	see SDS

For warnings see EC safety data sheet. The above information is the result of thorough research; previous information is hereby invalidated. Check for yourself whether the product is suitable for your purposes. Our possible liability is limited to the value of our product as such. We cannot accept any liability for indirect damage, in particular for the use or unusability of the product. No one is authorized to make recommendations or assurances on our behalf that go beyond the content of our information sheets.