

EGOSILICON 460 CONSTRUCTION FIX

is a ready-to-use 1-component silicone sealant that vulcanizes into an elastic end product by reacting with atmospheric moisture.

CHARACTERISTICS

The product is characterized by the following properties:

abrasion-resistant · compatible with paint · complies with DIN 18540 · fungicide · neutral cross-linking (alkoxy) · odorless · weather, aging & UV-resistant

APPLICATION AREAS

EGOSILICON 460 is suitable for connection and expansion joints in conjunction with concrete, masonry, glass, tiles, ceramics, metals, painted/coated wood and many stress-free plastics.

Areas of application:

building construction · clean room · glass sealing · HVAC systems · joints between frame/bar/mullion and glazing unit · sanitary shipbuilding · vehicle construction · windows

Good adhesion to: [please refer to primer table]

ceramics · clinker · concrete · enamel · fiber cement · glass · glazed tiles · many stress-free plastics · masonry · metals [e.g. aluminum, steel, zinc, copper] · mortar · painted/coated wood · plaster · tiles · wood

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

bitumen, wax and paraffin-containing substrates · black coatings · EPDM · PE · PP · teflon

APPLICATION NOTES

- 1 Adhesion surfaces must be 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 HAFTKLEBER on metals, acrylics and polycarbonate (see Primer Chart).*
 - 4 Process indoors with good ventilation and then continue to ventilate well.
- * Use EGO SMOOTHING AGENT for post-treatment.

Notes:

- Select cleaner depending on the substrate.
- Do not prime glass and glass-like surfaces.
- Compatible with EGO Butyl Sealing Tapes
- Discoloration of EGOSILICONE 460 transparent / white possible
- Own tests or consultation recommended.

STANDARDS AND TESTS

EGOSILICON 460 complies with the:

Standards according to:

- DIN 18540
- DIN EN 15651-1 F 25 LM EXT-INT-CC
- DIN EN 15651-2 G 25 LM CC
- DIN EN 15651-3 XS1
- DIN 52452-4, A1 compatible with paint
- DIN EN ISO 11600 - F, Classification 25 LM

IVD data sheets:

- No. 3-1, 3-2, 9, 10, 13, 19-1, 22, 24, 25, 27, 28, 29, 31, 35

The following tests were achieved by EGOSILICON 460:

European conformity:

- CE marking Declaration of Performance LE/DoP No. EGO3660314

Requirement of the directive:

- Testing and assessment of streaking and abrasion of glazing sealants

Test certificate:

- for use in clean rooms and ventilation and air conditioning systems in accordance with VDI 6022 „Hygiene requirements for ventilation and air conditioning systems and devices“ and in accordance with VDI 2083 „Clean room technology“

SUSTAINABILITY

VOC requirements:

- EMICODE EC1^{PLUS}
- AgBB scheme
- French VOC class A+ and KMR regulation
- LEED[®] EQ c4.1

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SUSTAINABILITY

Product verifications:

- LEED Building Design and Construction V4 (2015)
- BNB BN 2015 (quality level 5/5)
- BREEAM International New Construction 2016
- DGNB New Buildings 2018 (quality level 4/4)

Listing in baubook:

- EGOSILICON 460 is listed in baubook

Environmental Produkt Declaration (EPD):

- Sample-EPD (Silicone-based products, group 2)

Quality mark:

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



*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)

TECHINCAL DATA

Specifications	Results	In accordance with
Cross-linking system	neutral (Alkoxy)	
Density	approx. 1.0 g/cm ³	DIN EN ISO 1183-1
Application temperature	+5 °C to +40 °C	
Temperature resistance	-60 °C to +180 °C	
Shore A hardness	approx. 24	DIN EN ISO 868
Spray-out behavior	approx. 200 g/min (6mm; 3bar)	DIN EN ISO 8394-1
Modulus / tensile stress 100%	approx. 0.4 N/mm ²	DIN EN ISO 8339
Tear elongation	approx. 300 %	DIN EN ISO 8339
Tear resistance	approx. 0.7 N/mm ²	DIN EN ISO 8339
Tear propagation resistance	4,5	ISO 34-C
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. 30 minutes (23 °C/50% RH)	
Vulcanization	approx. 2 mm/24 hours	
Ignition temperature	approx. 450 °C	DIN 51794
Building material class	B2, normally flammable Euroclass E	DIN 4102 DIN EN 13501

AVAILABILITY AND STORAGE

Colors	over 30 colors [see color chart]
Packaging	<ul style="list-style-type: none"> ▪ 310 ml cartridges [20 pieces/carton, 60 cartons/pallet] ▪ 400 ml foil bags [20 pieces/carton, 60 cartons/pallet] ▪ 600 ml foil bags [20 pieces/carton, 30 cartons/pallet] ▪ Special containers on request
Storage	<p>Can be stored cool and dry in original packaging:</p> <ul style="list-style-type: none"> ▪ 12 months [cartridges] ▪ 12 months [foil bags] <p>The production or best-before date can be found on the container label.</p>

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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.