

EGO SMP 818 CONSTRUCTION

is an elastic single-component high-performance sealant on a hybrid basis with a very broad adhesion spectrum and optimum processing properties. Tested for special sealing of building construction joints in accordance with DIN 18540 and for use in sanitary areas and HVAC systems.

CHARACTERISTICS

The product is characterized by the following properties:

odorless · solvent-free · silicone-free · isocyanate-free · extremely high resilience · paint-compatible · virtually no shrinkage · weather, ageing & UV-resistant

APPLICATION AREAS

EGO SMP 818 is suitable for sealing highly stressed connection and expansion joints in interior and exterior areas.

Areas of application:

Automotive · Floor · Caravan · Roof · Facade · Windows · Pedestrian crossings · Building construction · Food · HVAC systems · Sanitary drywall · Doors

Good adhesion to: [please note primer table]

Aluminum · concrete · various plastics · enamel · fiber cement · glass · wood · ceramic · masonry · metal · plaster · PVC-hard

Not or only partially suitable for: [Own tests assumed and recommended]

Bitumen · PE · PP · silicone · etc.

APPLICATION AREAS

- 1 Clean the bonding surfaces with **EGO CLEANER**.[®]
- 2 The bonding surfaces must be clean, dry, stable and free of dust and release agents.
- 3 Very good adhesion to many materials without primer.
- 4 **EGO PRIMER** is recommended on absorbent substrates for optimum adhesion properties.[®]
- 5 The object, material and ambient temperature should not exceed +35 °C during the curing time of the product.
- 6 Process indoors with good ventilation and then continue to ventilate well.
- 7 Use **EGO SMOOTHING AGENT** for post-treatment.

★ Notes:

- Select cleaner depending on the substrate.
- Do not prime glass and glass-like surfaces.
- Own tests or consultation recommended.

STANDARDS AND TESTS

EGO SMP 805 corresponds to the:

Standards according to:

- DIN 18540-fb
- DIN 52455-1 Early resistance [exposure C with Ca(OH)₂-saturated water]
- DIN EN ISO 11600 F 25 LM
- DIN EN 15651-1 F 25 LM EXT-INT-CC
- DIN EN 15651-3 XS1
- DIN ISO 16936-2 [no discoloration on porous substrates without printing]

IVD data sheets:

- No. 1, 9, 10, 16, 19-1, 20, 21, 22, 24, 25, 27, 28, 29, 31, 35

The following tests were achieved by EGO SMP 818:

ift-certificate:

- Testing of the joint sealant **EGO SMP 818** in accordance with DIN 18540

Clearance declaration:

- Food

European conformity:

- CE marking declaration of performance LE/DoP no. EGO4181123

Test certificate:

- for use in ventilation and air conditioning systems in accordance with VDI 6022 „Hygiene requirements for ventilation and air conditioning systems and devices“.

SUSTAINABILITY

VOC requirements:

- EMICODE EC¹PLUS
- AgBB scheme
- french VOC class A+ and KMR regulation
- LEED certificate

SUSTAINABILITY

BMS 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)

Listed in the DGNB Navigator:

- EGO SMP 818 is listed in the DGNB Navigator
- EGO SMP 818 has been awarded the DGNB-Navigator label with the registration code: 2Z0GP5

Listung in baubook:

- EGO SMP 818 ist baubook gelistet

Quality mark:

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

Environmental Product Declaration (EPD):

- Sample EPD (Polyurethane and silane modified polymer based products, group 1)

Material requirements for QNG / Sustainable Building Quality Seal:

- Adhesives and sealants in interiors incl. TGA according to BNB_BN_1.1.6, Annex 1, item 8 and QNG-313, items 4.1, 4.2
- Adhesives and sealants for creating the airtightness of the façade in accordance with BNB_BN_1.1.6, Annex 1, Item 9 and QNG-313, Item 4.3



TECHNICAL DATA

Specifications	Results	in accordance with
Material basis	SMP hybrid polymer, single-component	
Density	approx. 1,4 g/cm ³	DIN EN ISO 1183-1
Handling Temperature	+5°C to +35°C	
Temperature resistance	-30°C to +80°C	
Shore A Hardness	approx. 20	DIN EN ISO 868
Extrusion Rate	approx. 616 g/min (6mm; 3 bar)	DIN EN ISO 8394-1
Module / tensile stress	approx. 0,4 N/mm ²	DIN EN ISO 8339
Elongation at break	approx. 280 % approx. 410 % (S2, 7d 23°C / 50 RH)	DIN EN ISO 8339 DIN 53504
Acceptable total deformation	25 %	
Resilience	approx. 90 %	DIN EN ISO 7389
Tensile strength T _{max}	approx. 0,7 N/mm ² (7d 23°C / 50 % RH)	DIN 53504
Tensile shearing strength T _{max} (Stainless steel, 2 mm)	approx. 0, 24 MPa (7d 23°C / 50 % RH)	
Tear resistance	approx. 4,5 kN/m	ISO-34-1 method B
Volume shrinkage	approx. 2 %	DIN EN ISO 10563
Viscosity	stable	DIN EN ISO 7390
Skin formation time	approx. 30 min. (bei 23°C und 50 % rel. RH)	
Vulcanisation	2-3 mm / 24 Std. (bei 23°C und 50 % rel. RH)	
Building Material Class	B2, normally flammable Euro-class E	DIN 4102 DIN EN 13501

AVAILABILITY AND STORAGE

Colors	<ul style="list-style-type: none">▪ white, pebble grey, grey, basalt grey, black▪ other colors on request
Packaging	<ul style="list-style-type: none">▪ 290 ml cartridges [20 pieces/carton, 60 cartons/pallet]▪ 600 ml foil bags [20 pieces/carton, 60 cartons/pallet]
Storage	Original packaging is cool and dry storable (+15°C until +25°C, relative humidity <60%): <ul style="list-style-type: none">▪ 12 months [cartridges, foil bags]

SAFETY INFORMATION

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.