

smet

SoproDur® HF-D 817

High-strength sealant



Chemical-resistant, acetic-curing silicone sealant for elastic filling of heavy-duty floor and perimeter joints.

- Excellent chemical, ageing, UV and weathering resistance
- High temperature resistance
- Amenable to high-pressure cleaning
- For indoor and outdoor use
- Colour: grey 15
- Tested for food compatibility¹⁾
- DGNB (German Sustainable Building Council): Top quality level 4, Line 12²⁾
- EMICODE system of GEV (German Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials): ECI^{PLUS} ("very-low-emission-plus") rating

Use

For sealing floor and perimeter joints exposed to high mechanical and chemical loads in warehouses, factory halls, workshops, washing facilities, catering kitchens, food-processing facilities and yard areas.

Note: Not suitable for natural and cast stone coverings nor for underwater applications.

Suitable substrates

Glass, tiles and rear tile faces, enamel, polyester, GRP, uncoated aluminium, stainless steel, concrete, aerated concrete. Metal substrates shall be corrosion-protected.

SoproDur® HF-D 817 adheres to a wide range of unprimed substrates. Mineral and absorbent substrates, e.g. concrete, require pretreatment with Sopro Primer P 4050. Sweep substrate or tile edges where necessary; brush apply primer to joint faces, allowing a minimum flash-off time of 30 minutes. Sealant can be applied to primed joints after 30-minute flash-off time.

Without primer: Glass, tiles, uncoated aluminium, polyester, GRP, lacquers/varnishes, epoxy resin

With Sopro Primer P 4050 for silicone sealants: Concrete, aerated concrete, masonry, plaster-work/render

With Sopro SPM 022 silicone primer for metal: Stainless steel, copper, galvanized steel and chrome, anodized aluminium, enamel, solvent-bearing glazes, PVC

Given the wide variety of possible substrate types, adhesion tests are recommended.

For information regarding substrates other than those specified here, please contact our technical counselling service.

Skinning time

Approx. 10 min

Curing

2–3 mm/24 hours

Density

~ 1.1 at 23 °C

Temperature resistance

-40 °C to +180 °C

Shore A hardness

~ 20 to ISO 1183-1

Joint width/joint depth³⁾

5 mm/5 mm; 6 mm/6 mm; 8 mm/8 mm;
10 mm/8 mm; 12 mm/8 mm; 15 mm/10 mm

Tensile streng

~ 2 to ISO 37

Movement accommodation/ expansion

Max. 12.5 % of joint width

¹⁾ Meets microbiological criteria under test method of Chemisches Laboratorium Dr. Stegemann and requirements of German Federal Institute for Risk Assessment (BfR) for volatile organic compounds and extractables.

²⁾ Based on DGNB (German Sustainable Building Council) criterion "ENV1.2 Local Environmental Impact" (2015 version).

³⁾ As specified in IVD (German Sealant Manufacturers' Association) data sheet no. 3

Elongation at break	~ 750 to ISO 37
Tensile modulus	~ 0.4
Colour	Grey 15
Application temperature	Between +5°C and +35°C
Viscosity	Pasty, sag-resistant at 23°C
Coverage	3.1 m/cartridge for 10 mm/10 mm joints
Shelf life	Max. 12 months, subject to storage in original unopened containers; 7 days once opened; store in cool, dry conditions
Packaging	310 ml cartridge (Nr 12 in box)
Properties	SoproDur® HF-D 817 is an elastic, acetic-curing sealant resistant to high mechanical and chemical loads, with excellent ageing, UV, weathering and temperature resistance, and tested for food compatibility.
Substrate preparation	<p>Joint faces shall be dry, clean, strong and free from dust and adhesion-impairing substances. Completely remove any oil or grease from smooth, closed-pore substrates using industry-standard solvents, e.g. acetone or spirit. Where necessary, prime in accordance with Primer Table.</p> <p>Cementitious grouts shall be fully cured and dry prior to application of silicone.</p> <p>Joint base shall be filled with back-up material up to required joint depth.</p> <p>Note! Do not use any bituminous, tar-bearing or fibrous materials. Three-side adhesion of SoproDur® HF-D 817 to substrate shall be prevented.</p> <p>To achieve a neat finish at joint edges, these shall be masked over adequate width using adhesive tape, which shall be removed immediately after sealant application.</p>
Disposal	<p>Waste treatment methods</p> <p>Recover if possible. In so doing, comply with the local and national regulations currently in force.</p> <p>91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.</p>

Application

After priming (with allowance for required flash-off time), apply SoproDur® HF-D 817 without bubbling, e.g. using gun. Smooth surface of sealant prior to commencement of skinning with Sopro GM 026 smoothing agent using damp spatula or silicone smoother. Working in stages is possible where required.

Particular care shall be taken to avoid air entrapment to ensure optimum adhesion and good mechanical properties.

Note: Suitable measures shall be taken to protect joints against mechanical damage and soiling up to complete curing of sealant surface. Trial sealant application is recommended due to wide variety of possible adjoining covering types.

Care shall be taken to prevent damage to sealant through hard cleaning brushes or high-pressure cleaner (minimum distance between nozzle and joint > 50 cm) where mechanical cleaning methods are used. Protection of elastic joint by cover strip is recommended where flooring is subject to heavy vehicular traffic.

It shall be remembered that, under DIN 52460, joints in spaces subject to chemical loads require inspection at regular (e.g. annual) intervals and, where necessary, refurbishment. **Please consult resistance table!**

Specified times

Apply for normal temperature range of +23°C and 50% relative humidity; higher temperatures shorten and lower temperatures lengthen these times.

Tools/tool cleaning

Gun, silicone smoother; wash tools with water or Sopro GM 026 smoothing agent immediately after use; once set, material requires mechanical removal

Test report

Chemisches Laboratorium Dr. Stegemann, Georgsmarienhütte

– Meets microbiological criteria under contact method of Chemisches Laboratorium Dr. Stegemann; falls below detection limit for volatile organic compounds and extractables under requirements of German Federal Institute for Risk Assessment (BfR)

Licence



EMICODE system of GEV (German Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials): EC1^{PLUS} (“very-low-emission-plus”) rating

Safety precautions

Exempt from labelling requirements under Regulation (EC) No 1272/2008 (CLP).

Ensure adequate ventilation during application and curing. **EUH210** Safety data sheet available on request. **P102** Keep out of reach of children. **P332+P313** If skin irritation occurs: Get medical advice/attention.

CE marking

	 Sopro Bauchemie GmbH Biebricher Straße 74 65203 Wiesbaden (Germany) www.sopro.com
14 CPR-DE3/0817.1.en EN 15 651-4:2012 SoproDur® HF-D 817 One-component, acetate-curing silicone sealant for heavy-duty joints Type PW EXT-INT Conditioning: Method A Substrate: Glass Pretreatment: Sopro SPC 023 silicone primer clean	
Reaction to fire	Class E
Water tightness and air tightness	
– Tensile properties at maintained extension	Pass (NF)
– Loss of volume	≤ 15 %
– Tear resistance	Pass (NF)
– Adhesion/cohesion properties at maintained extension after 28 days' water immersion	Pass (NF)
– Adhesion/cohesion properties at maintained extension after 28 days' salt water immersion	Pass (NF)
Durability	Pass (NF)
Release of chemicals dangerous to the environment and health	Assessed

bringing european innovation

smet

FOR MORE INFORMATION CONTACT: Smet Building Products Ltd

93A Belfast Road | Newry | BT34 1QH | Northern Ireland

T: +44 (0)28 3026 6833 ROT: +353 (0) 1697 8586

E: info@smetbuildingproducts.com

smetbuildingproducts.com or smet.ie



The information, and, in particular, the recommendations relating to the application and end-use of SMET distributed products, are given in good faith based on SMET's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the manufacturer's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.