

# EVT Sanitary HPS plus

## PROFI Sanitary silicone

1K silicone sealant – acetate system – With silver ion technology



### EVT<sup>®</sup> Dichtstoffe GmbH

Kornwestheimer Str. 230  
70825 Korntal-Münchingen  
Germany

### Contact

+49 7150 97406-0  
+49 7150 97406-96  
info@evt-dichtstoffe.com  
[www.evt-dichtstoffe.com](http://www.evt-dichtstoffe.com)

### Technical data sheet

Product: EVT Sanitary HPS plus  
Release: Mai 2023  
Copyright: © EVT<sup>®</sup> Dichtstoffe GmbH  
Technical changes and errors excepted.

## Fields of application

- ▼ Expansion and connection joints in areas subject to permanent high moisture loads
- ▼ Expansion and connection joints in fitness studios, swimming pools, wellness facilities, shower rooms
- ▼ Expansion and connection joints in sanitary areas
- ▼ Expansion and connection joints in floors and walls
- ▼ Indoor and outdoor applications

## Special properties

- ▼ Fungicide and anti-fungal equipped with silver ion technology
- ▼ Excellent workability due to solid consistency
- ▼ Good UV resistance
- ▼ Compatible with paints (according to DIN 52452-4)
- ▼ Excellent abrasion resistance to chemicals, cleaning agents and disinfectants
- ▼ Very short filament pull
- ▼ Excellent adhesion properties to glass and glazed surfaces (e.g. enamel, tiles) and anodized aluminum
- ▼ Resistant to weathering and aging

## Tests & Standards

- ▼ Tested according to DIN EN 15651 - 2 Type G CC (25HM)
- ▼ Tested according to DIN EN 15651 - 3 Type S (XS1)
- ▼ Meets DIN ISO 11600: G25 HM
- ▼ Leed 2009: Meets IEQ Credit 4.1 requirements (VOC content < 50g/l)
- ▼ Meets VOC emission class (France): A+
- ▼ DGNB (2015 version; ENV 1.2 Risks to the Local Environment, Annex 1, No. 12): Meets criteria for quality levels 1 to 4.
- ▼ Tested according to DIN EN 13501 (fire behavior): Class E
- ▼ Suitable for applications according to IVD bulletin no. 3-1, 3-2, 14 & 35

## Technical data

Density (DIN EN ISO 2811-1)	1,03 ± 0,04 g/cm <sup>3</sup>
Skin forming time (23°C/50% r.F)	app. 15 min
Penetration (DIN 51579 / 5 sek.)	130 ± 30 1/10 mm
Slump (in Anlehnung an ASTM 2202)	≤ 2 mm
Cure rate (in den ersten 24 Stunden)	app. 3 mm
Shore A hardness (DIN 53505)	20 ± 5 Units
Tensile strength (DIN EN ISO 8339-A, 100%)	ca. 0,55 N/mm <sup>2</sup>
Maximum movement tolerance (manufacturer's specification)	25 %
Volume loss (DIN EN ISO 10563)	~ 3 %
Application temperature (sealant & substrate)	+5 bis +35°C
Temperature stability (fully cured sealant)	-40 bis +180°C
Shelf life (originally closed packages)	18 month (+5 bis +35°C, 50% r.F.)

Curing depends on temperature, humidity and film thickness. The data given refer to the test at standard climate (23°C/50% r.H.). Under these conditions, a 10x10mm joint cures completely in 8 to 14 days. Low temperatures, low humidity as well as joint depths above 15 mm slow down skin formation and curing significantly in some cases.

The characteristic data are determined close to production and may vary slightly with increasing age of the product as well as the different colorations. The characteristic data do not represent a specification agreement.

## Joint dimensions

Joints to be sealed should be at least 5 x 5 mm (interior application) or 10 x 8 mm (exterior application; width x depth). With increasing joint width (up to 30 mm), the joint depth should be approximately half the joint width in accordance with DIN18540. In the case of triangular chamfers, care should be taken to ensure a light and isosceles design with at least 7 mm of adhesive surface on each side.

## Preparation of the adhesive surface

The substrate must be dry, load-bearing, free of dust and grease (if necessary, clean with for example EVT Soft Cleaner). Porous substrates ( for example concrete, gypsum plasterboard, raw wood) must be pretreated with primer (see also our primer table). If necessary, remove cement slurry, formwork oil coatings / impregnations before applying the primer. In the case of renovation work, old sealant, paint residues and non-supporting layers must be completely removed.

In the case of coated substrates ( for example varnishes, paints), compatibility with the sealant must be ensured by preliminary tests.

It is essential to provide the joint with a suitable, correctly dimensioned backfill material ( for example, closed-cell PE cord, PE film) to prevent 3-surface adhesion. The joint edges can be covered with an adhesive tape to ensure clean and straight joints.

## Application

Cut open the cartridge nozzle according to the joint dimensions. Apply sealant to the joint without bubbles using a suitable EVT hand, battery or compressed air gun and then smooth with EVT smoothing agent and a suitable smoothing tool, if necessary. Smoothing improves the contact between the sealant and the bonding surfaces. Remove excess smoothing agent immediately afterwards to avoid permanent streaks. Immediately remove any adhesive tape used to avoid tearing of the skin that forms, re-smooth if necessary. One cartridge (310 ml) is sufficient for approx. 12 m (5x5 mm) or 3 m (10x10 mm) joint length. Residual sealant can be disposed of with household or commercial waste after complete curing.

## Important informations

The functionality of the sealant can only be guaranteed if it is applied correctly and in compliance with the relevant regulations (joint dimensions and distances, instructions for use). The application of the sealant during strong temperature fluctuations (early stressing of the sealant) should be avoided.

The acetic acid split off during curing may cause corrosion on sensitive metals ( for example copper, brass, zinc, lead, iron). On alkaline substrates (e.g. concrete, mortar), loss of adhesion and efflorescence may occur. We recommend the use of neutrally crosslinking silicones here.

The sealant is compatible with paints according to DIN 52452-4. However, due to the large number of paint systems available on the market, we strongly recommend carrying out your own compatibility tests in specific cases. For example, alkyd resin paints are known to cause discoloration reactions in combination with neutral silicones. The sealant cannot be painted over.

Contact with bituminous, tar-containing or plasticizer-releasing substrates ( for example EPDM, neoprene, butyl) may result in loss of adhesion or discoloration.

During application and setting, ensure that the decomposition products formed during crosslinking can flash off unhindered. Low temperatures and/or low humidity as well as joint depths exceeding 15 mm may significantly slow down the curing process.

Particularly in the case of light colors ( for example, white), prolonged exposure to liquid (for example, acidic cleaning agents, cement residue remover, strongly colored solutions) or gaseous chemicals (for example, tobacco smoke, vapors from other building materials (including wood, paints)) may cause discoloration. This does not normally affect the mechanical performance of the sealant.

Products with fungicide offer increased protection against mold infestation of the joint. However, this protection can only ever have a supporting effect - mold infestation can only be permanently counteracted by a clean and dry joint. Critical factors include high moisture levels, increased temperature and contamination of the joint surface with substances that serve as nutrient media ( for example, soap residues, skin flakes).

The product must not be used in aquarium construction, as mirror adhesive, on marble/natural stone and in areas with direct contact to food. When used for underwater joints, special care must be taken (primer is often required) and such joints must always be identified as maintenance joints.

Not suitable for plastics on which silicones generally exhibit poor adhesion ( for example PE, PP and PTFE), as well as for surface bonding.

If you have any questions regarding application technology, please contact your sales representative or call our sales office at 07150/97406-0.

## Safety advice

Contains biocide: carbendazim, silver, DCOIT. May cause allergic reactions. Harmful to aquatic organisms, with long lasting effects. Avoid release into the environment. Accident and health protection measures resulting from the safety data sheet and labeling must be observed. Safety data sheet available on request.

## Warranty of defects

The above information, in particular the suggestions for processing and use of our products, are based on our knowledge and experience. Due to the different materials, substrates and deviating working conditions, a guarantee of a working result or liability can neither be justified from these indications, nor from verbal advice. Product specifications are subject to change without notice. The user is responsible for checking the suitability of the products for the intended application. We are at your disposal for inquiries regarding special applications. Our recommendations do not release the user from the obligation to check for and, if necessary, observe any infringement of third-party industrial property rights. Likewise, it is the user's responsibility to check whether official requirements must be met or permits obtained for the intended use, as well as to clarify any further requirements of the respective customer. For the rest, we refer to our General Terms and Conditions, in particular also with regard to any liability for defects.

Each new release of this data sheet supersedes the previous one.

## Colours and packaging

Colours	310 ml cartridges	400 ml film bags
Anthracite	1009-1-030005	*
Bahama beige	1009-1-030028*	*
Flannel gray	1009-1-030023	1009-1-030023*
Joint gray	1009-1-030024	*
Light gray	1009-1-030013*	*
Jasmine	1009-1-030026*	*
Manhattan	1009-1-030021	*
Medium gray	1009-1-030012	*
Pergamon	1009-1-030043*	*
Sanitary gray	1009-1-030022*	*
Silver gray	1009-1-030035	*
Dust gray	1009-1-030009	*
White	1009-1-030002	*

\* No stock goods, minimum purchase and delivery times on request.