

EVT Connection HPA

PROFI Connection silicone

1K Silicone Sealant – Neutral-System – Meko-free



EVT® Dichtstoffe GmbH
Kornwestheimer Str. 230
70825 Korntal-Münchingen
Deutschland

Contact
☎ +49 7150 97406-0
📠 +49 7150 97406-96
✉ info@evt-dichtstoffe.com
www.evt-dichtstoffe.com

Technical data sheet
Product: EVT Connction HPA
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Technical changes and errors expepted.

Fields of application

- ▼ Sealing of expansion and connection joints on windows, doors and facades
- ▼ Sealing of expansion and connection joints between metal and plastics
- ▼ Sealing of expansion and connection joints between masonry and concrete
- ▼ Sealing of expansion and connection joints in sanitary areas
- ▼ Sealing of expansion and connection joints in facade and metal construction
- ▼ Sealing of expansion and connection joints in roofing and tinsmith work
- ▼ Sealing of expansion and connection joints in heating, air conditioning and ventilation systems
- ▼ Indoor and outdoor applications

Special properties

- ▼ Very wide adhesion spectrum
- ▼ Meko-free
- ▼ Resistant to weathering and aging
- ▼ Good UV resistance
- ▼ Paint compatible (according to DIN 52452-4)
- ▼ Low odor
- ▼ Good adhesion to metals metals and many plastics
- ▼ Copper compatible
- ▼ Fungicidal and anti-fungal properties
- ▼ Non-corrosive
- ▼ Low emission

Tests & Standards

- ▼ Meets GEV EMICODE®: EC1 Plus "very low emission"
- ▼ Tested according to DIN EN 15651 - 1 Type F int-ext CC (F25 LM)
- ▼ Tested according to DIN EN 15651 - 2 Type G CC (G25 LM)
- ▼ Tested according to DIN EN 15651 - 3 Type S (XS1)
- ▼ Meets DIN ISO 11600: Classification F&G 25 LM
- ▼ Leed 2009: Meets requirements according to IEQ Credit 4.1 (VOC content < 50g/l)
- ▼ Meets VOC emission class (France): A+
- ▼ DGNB (2018 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 bulletins no. 3-1, 3-2, 7, 9, 10, 13, 14, 19-1, 20, 22, 24, 25, 27, 28, 29, 31, 32 & 35

| Technical data | Connection HPA | Connection HPA (Transparent / Stainless Steel) |
|--|------------------------------------|---|
| Density (DIN EN ISO 2811-1) | 1,19 ± 0,04 g/cm ³ | 1,02 ± 0,05 g/cm ³ |
| Skin forming time (23°C/50% r.F) | ca. 12 min | ca. 10 min |
| Penetration (DIN 51579 / 5 sek.) | 150 ± 30 1/10 mm | 160 ± 30 1/10 mm |
| Stability (according to ASTM 2202) | ≤ 2 mm | |
| Through-hardening (in the first 24 hours) | ca. 3 mm | |
| Shore A Hardness (DIN 53505) | 30 ± 5 Units | 17 ± 5 Units |
| Elongation stress value (DIN EN ISO 8339-A, 100%) | ca. 0,45 N/mm ² | ca. 0,4 N/mm ² |
| Permissible total deformation (manufacturer's specification) | 25 % | |
| Volume shrinkage (DIN EN ISO 10563) | ~ 3 % | |
| Application temperature (sealant and substrate) | +5 bis +35°C | |
| Temperature load (cured sealant) | -40 bis +150°C | |
| Storage stability (closed original container) | 15 Months (+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.

Preparation of the bonding surfaces

The substrate must be dry, load-bearing, free of dust and grease (if necessary, clean with e.g. EVT Soft / Special Cleaner). Porous substrates (e.g. concrete, gypsum plasterboard, raw wood) must be pretreated with primer (see also EVT Primer Table). If necessary, remove cement slurry, formwork oil coatings/impregnations before applying the primer. In the case of renovation work, old sealing compound, paint residues and non-load-bearing layers must be completely removed. In the case of coated substrates (e.g. 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 (e.g. EVT closed-cell PE cord, PE film) to prevent 3-surface adhesion. The joint edges can be covered with a self-adhesive tape to ensure clean and straight joints. In the case of coated substrates (e.g. varnishes, paints), compatibility with the sealant must be ensured by preliminary tests.

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.

Application

Cut open the cartridge nozzle according to the joint dimensions. Apply EVT Connection HPA bubble-free into the joint using a suitable EVT hand-held, cordless or air-pressure sealant 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 directly afterwards to avoid permanent streaks. Immediately remove any adhesive tape used to prevent 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 information

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 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.

Particularly in the case of powder-coated surfaces, adhesion must be checked on a case-by-case basis, as the adhesion of silicones may be negatively affected depending on the paint used (possibly also only for individual color shades). Contact with bituminous, tar-containing or plasticizer-releasing substrates (e.g. EPDM, neoprene, butyl) may result in loss of adhesion or discoloration. During application and setting, care must be taken to ensure that the release 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 shades (e.g. white), prolonged exposure to liquid (e.g. acid cleaning agents, cement residue remover, strongly colored solutions) or gaseous chemicals (e.g. tobacco smoke, vapors from other building materials (e.g. 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 are high humidity, increased temperature and contamination of the joint surface with substances serving as nutrient medium (e.g. soap residues, skin flakes). The product must not be used in aquarium construction, as a mirror adhesive, for underwater joints, on marble/natural stone and in areas with direct contact with foodstuffs. Not suitable for plastics on which silicones generally exhibit poor adhesion (e.g. PE, PP and PTFE), and for two-dimensional bonding.

If you have any questions for the application technology, please contact your responsible sales representative or speak to our sales office 07150/97406-0.

Safety advice

Accident and health protection measures resulting from the safety data sheet and the labeling must be observed. Safety data sheet available on request.

Warranty for 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 testing the products for their suitability 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 edition of this product data sheet renders older editions invalid.

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Color and delivery form

| Colors | 310 ml Cartouche | 400 ml Foil pouch | 600 ml Foil pouch |
|-----------------|------------------|-------------------|-------------------|
| Anthracite | 1017-1-030005 | * | 1017-1-060005* |
| Concrete gray | 1017-1-030010 | * | 1017-1-060010 |
| Brown | 1017-1-030008* | * | 1017-1-060008* |
| Dark brown | 1017-1-030019* | * | 1017-1-060019* |
| Dark gray | 1017-1-030032* | * | 1017-1-060032* |
| Rock gray | 1017-1-030062* | * | 1017-1-060062 |
| Gray | 1017-1-030001 | * | 1017-1-060001 |
| Grey white | 1017-1-030025 | * | 1017-1-060025* |
| Light gray | * | 1017-1-040013* | 1017-1-060013 |
| Medium gray | 1017-1-030012* | * | 1017-1-060012 |
| Stainless steel | 1017-1-030042 | 1017-1-040042* | * |
| Sanitary gray | 1017-1-030022* | * | * |
| Black | 1017-1-030004 | * | 1017-1-060004 |
| Transparent | 1017-1-030003 | 1017-1-040003* | 1017-1-060003 |
| White | 1017-1-030002 | 1017-1-040002* | 1017-1-060002 |
| 9001 | * | * | 1017-1-069001 |
| 9002 | 1017-1-039002 | * | 1017-1-069002 |
| 9010 | 1017-1-039010 | * | 1017-1-069010 |
| 9016 | 1017-1-039016** | * | 1017-1-069016* |

* Not in stock, minimum purchase and delivery times on request.