SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

13373-10-1050

1K-Pistolenschaum PURlogic Flex

Product group: Construction Foam - PU foam

WÜRTH

Adolf Würth GmbH & Co. KG
Reinhold-Würth-Straße 12-17
74653 Künzelsau-Gaisbach

Product qualities:

- QNG – Qualitätssiegel Nachhaltiges Gebäude ✓
- DGNB NEW CONSTRUCTION 2023.2 ✓
- DGNB NEW CONSTRUCTION 2023 ✓
- DGNB NEW CONSTRUCTION 2018 ✓
- BNB-BN NEUBAU V2015 ✓
- EU TAXONOMY ✓
- BREEAM DE NEUBAU 2018 ✓
- LEED v4.1 (outside US) ✓

CERTIFIED SUSTAINABLE PRODUCT – SHI PRODUCT PASSPORT – SENTINEL HOLDING INSTITUT – www.sentinel-holding.eu

Köttner

Helmut Köttner
Scientific Director
Freiburg, 17 August 2026

Product:
1K-Pistolenschaum PURlogic Flex

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DGNB New Construction 2023	3
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The SHI Database is the first and only database for construction products whose comprehensive processes and data accuracy are regularly verified by the independent auditing company SGS-TÜV Saar

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QNG - Qualitätssiegel Nachhaltiges Gebäude

The Qualitätssiegel Nachhaltiges Gebäude (Quality Seal for Sustainable Buildings), developed by the German Federal Ministry for Housing, Urban Development and Building (BMWSB), defines requirements for the ecological, socio-cultural, and economic quality of buildings. The Sentinel Holding Institut evaluates construction products in accordance with QNG requirements for certification and awards the QNG ready label. Compliance with the QNG standard is a prerequisite for eligibility for the KfW funding programme. For certain product groups, the QNG currently has no specific requirements defined. Although classified as not assessment-relevant, these products remain suitable for QNG-certified projects.

Criteria	Pos. / product group	Considered substances	QNG assessment
3.1.3 Schadstoffvermeidung in Baumaterialien	12.5 In-situ foams (PUR, UF) for interior spaces and the building envelope	Halogenated propellants / SVHC / formaldehyde / emissions / chlorinated paraffins	QNG ready
Verification: Herstellererklärung 01.26			

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DGNB New Construction 2023.2

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact	38 Montageschäume (innen und Gebäudehülle)	VVOC, VOC, SVOC Emissionen und Gehalt an gefährlichen Stoffen	Quality level 1
Verification: EMICODE EC1 Plus Zertifikat (4234/15.05.06) 14.02.2023, Herstellererklärung 01.26			

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DGNB New Construction 2023

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings. The 2023 version sets high standards for ecological, economic, socio-cultural, and functional aspects throughout the entire life cycle of a building.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition)	38 Installation foams that do not have to meet the requirements8	VVOCs, VOCs, SVOC emissions, halogenated propellants, chlorinated paraffins, plasticisers, flame retardants	Quality level 2
Verification: EMICODE EC1 Plus Zertifikat (4234/15.05.06) 14.02.2023, Herstellererklärung 01.26			

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	38 Installation foams	VVOCs, VOCs, SVOC emissions, halogenated propellants, chlorinated paraffins, plasticisers, flame retardants	Quality level 2
Verification: EMICODE EC1 Plus Zertifikat (4234/15.05.06) 14.02.2023, Herstellererklärung 01.26			

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DGNB New Construction 2018

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact	38 Installation foams that do not have to meet the requirements of class B1	Halogenated and other propellants solvents, plasticisers and flame retardants	Quality level 2
Verification: EMICODE EC1 Plus Zertifikat (4234/15.05.06) 14.02.2023, Herstellererklärung 01.26			

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BNB-BN Neubau V2015

The Bewertungssystem Nachhaltiges Bauen (Assessment System for Sustainable Building) is a tool for evaluating public office and administrative buildings, educational facilities, laboratory buildings, and outdoor areas in Germany. The BNB was developed by the former Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) and is now overseen by the Federal Ministry for Housing, Urban Development and Building (BMWSB).

Criteria	Pos. / product type	Considered substance group	Quality level
1.1.6 Risiken für die lokale Umwelt	33 Spray and mounting foams	Halogenated refrigerants / individual hazardous substances (formaldehyde)	Quality level 3
Verification: Herstellererklärung 01.26			

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EU taxonomy

The EU Taxonomy classifies economic activities and products according to their environmental impact. At the product level, the EU regulation defines clear requirements for harmful substances, formaldehyde and volatile organic compounds (VOCs). The Sentinel Holding Institut GmbH labels qualified products that meet this standard.

Criteria	Product type	Considered substances	Assessment
DNSH - Pollution prevention and control	Sonstige	Stoffe nach Anlage C	compliant
Verification: EMICODE EC1 Plus Zertifikat (4234/15.05.06) 14.02.2023			

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BREEAM DE Neubau 2018

BREEAM (Building Research Establishment Environmental Assessment Methodology) is a UK-based building assessment system that evaluates the sustainability of new constructions, refurbishments, and conversions. Developed by the Building Research Establishment (BRE), the system aims to assess and improve the environmental, economic, and social performance of buildings.

Criteria	Product category	Considered substances	Quality level
Hea 02 Indoor Air Quality	Interior adhesives and sealants (including flooring adhesives)	Emissions: Formaldehyde, TVOC, TSVOC, carcinogens	Exemplary quality
Verification: EMICODE EC1 Plus (4234/15.05.06) vom 14.02.2023			

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LEED v4.1

LEED (Leadership in Energy and Environmental Design) is an internationally recognised building certification system developed by the U.S. Green Building Council. It is one of the most widely used sustainability standards for buildings worldwide and is particularly applied in internationally oriented projects. LEED assesses buildings holistically across categories such as energy efficiency, resource conservation, material selection, indoor environmental quality and site sustainability. Depending on the number of points achieved, projects are awarded one of the certification levels: LEED Certified, Silver, Gold or Platinum.

Criteria	Product category	Considered substances	Assessment
EQ Credit: Low-Emitting Materials	Kleb- und Dichtstoffe	Emissionen: Formaldehyd, VOC, Krebserregende Stoffe	compliant
Verification: EMICODE EC1 Plus (4234/15.05.06) vom 14.02.2023			

Product:
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Product labels

In the construction industry, high-quality materials are crucial for a building's indoor air quality and sustainability. Product labels and certificates offer guidance to meet these requirements. However, the evaluation criteria of these labels vary, and it is important to carefully assess them to ensure products align with the specific needs of a construction project.

The EMICODE® label, awarded by the German manufacturers' association "GEV – Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e. V.", is primarily relevant for flooring installation materials. The EMICODE® EC1^{PLUS} label, as the premium class, sets significantly stricter emission limits than the other label variants.

Products bearing the Sentinel Holding Institute QNG-ready seal are suitable for projects aiming to achieve the "Qualitätssiegel Nachhaltiges Gebäude" (Quality Seal for Sustainable Buildings). QNG-ready products meet the requirements of QNG Appendix Document 3.1.3, "Avoidance of Harmful Substances in Building Materials." The KfW loan program Climate-Friendly New Construction with QNG may allow for additional funding.

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Legal notices

(*) These criteria apply to the construction project as a whole. While individual products can positively contribute to the overall building score through proper planning, the evaluation is always conducted at the building level. The information was provided entirely by the manufacturer.

Find our criteria here: https://www.sentinel-holding.eu/de/Themenwelten/Pr%C3%BCfkriterien%20f%C3%BCr%20Produkte

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SGS TÜV SAAR

Publisher

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www.sentinel-holding.eu

TECHNICAL DATA SHEET

PURlogic® Flex 1-C gun foam

Art. no. 0892 142 8
P. Qty.: 1 / 15



1C premium foam for elastic joint insulation

The high elasticity (approx. three times the flexibility of conventional PU foams) of PURlogic® FLEX considerably reduces the risk of the foam cracking and thermal bridges. The foam is also suitable for use in winter down to a substrate and ambient temperature of -15°C and can temperature of 0°C. The 10-year system warranty does not apply in connection with the product's suitability for winter.

Properties examined in independent test institutes:

- Component testing: Fulfils all structural-physical requirements in old and new buildings, inspected by Gewerbliche Akademie für Glas-, Fenster- und Fassadentechnik (Commercial Academy for Glass, Window and Facade Technology) in Karlsruhe, Germany.
- Joint sound insulation: R(ST,w) = 60 dB according to EN ISO 717-1, tested by ift Rosenheim.
- Thermal conductivity: Reduces thermal loss at 0.0345/(mK) according to DIN 52612
- Tested by MPA Hanover
- Air permeability: Prevents draughts, tested according to DIN 18542 by ift Rosenheim
- Water vapour permeability: Tested water vapour diffusion resistance of 20 μ according to DIN EN ISO 12572 by ift Rosenheim
- Energy saving according to German Energy Saving Ordinance (EnEV): Reduced ventilation heat requirement of 0.36 MWh/a at a pressure difference of 100 Pa, tested by Fraunhofer Institute based on DIN 18055/DIN EN 204
- General test certificate issued by construction authorities: Corresponds to material class B2 according to DIN 4102, Part 1, tested by Material Testing Institute in Leipzig

Chemical basis	Single component polyurethane
Colour	Pebble grey
Smell/fragrance	Characteristic
Moulded density	24 kg/m³

PRO1_08921428, TDB, Rev: 0.69, State: 08. 01. 2025

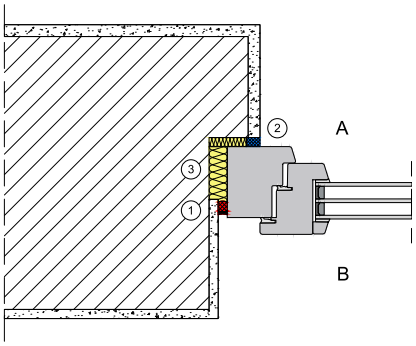
TECHNICAL DATA SHEET

Cell structure	Medium - fine
Cell structure conditions	tested in accordance with Würth test methods
Tack-free after	6 min
Conditions for being tack-free	at 23 °C and 50% humidity
Can be cut after	20 min
Conditions for ability to cut	at 23 °C and 50% relative humidity
Full resilience	12 h
Conditions for full resilience	at 23 °C and 50% relative humidity
Min. processing temperature	5 °C
Max. processing temperature	25 °C
Min. ambient processing temperature	-15 °C
Max. ambient processing temperature	25 °C
Min. surface processing temperature	-15 °C
Max. surface processing temperature	25 °C
Min. processing temperature for can	0 °C
Min. temperature resistance	-40 °C
Max. temperature resistance	90 °C
Building material class	B2 - Normally inflammable
Building material class conditions	in accordance with DIN 4102
Heat conductance λ	0.034 W/(m*K)
Heat conductance λ conditions	in accordance with DIN 52612
Water absorption (%)	0.3 Vol-%
Min. tensile strength	5 N/cm^2
Conditions for tensile strength	in accordance with DIN 53571
Acoustic insulation for joints	60 dB
Conditions for acoustic insulation of joints	with 10-mm and 20-mm wide joint
Ultraviolet resistance	No
Min. breaking force	20 N
Yield (volume) approx.	18 l
Conditions for yield	at 23 °C and 50% humidity, in released form
Contents	500 ml
Container	Can
Number per pallet	825 PCS
Weight of content	581 g
Resistance against	Aging

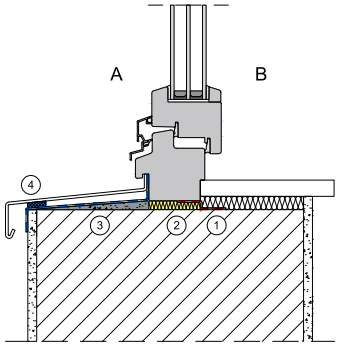
PRO1_08921428, TDB, Rev: 0.69, State: 08. 01. 2025

TECHNICAL DATA SHEET

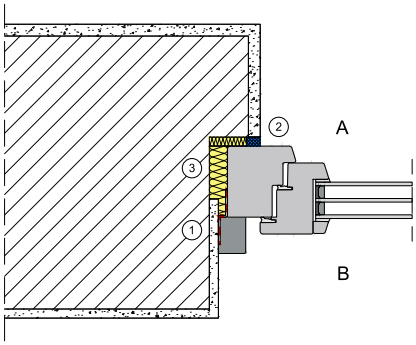
HCFC-free	Yes
CFC (fuel gas) free	Yes
HFC-free	Yes
Shelf life from production	12 Month
Conditions to maintain shelf life from production	at 20°C
Sustainability	Pollutants/Emissions



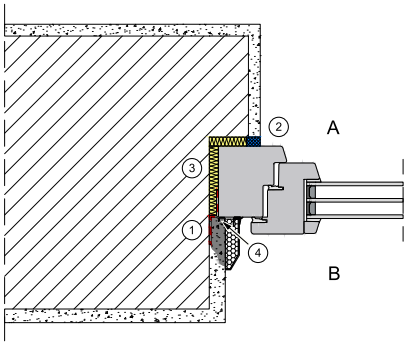
1. PE backfill material, cut-resistant round cord, paint acrylic
2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex



1. Window sealing tape Universal Euraseal U-305, window sealing tape Universal Euraseal U-100, window sealing tape inside Euraseal I-300, window sealing tape Universal Euraseal U-300
2. PURLOGIC Top 1C gun foam, PURLOGIC Flex 1C gun foam
3. EPDM sealing tape, outside SK, EPDM sealing tape, outside 0.8 mm butyl, EPDM sealing tape, outside
4. Sealing tape VKP PLUS, sealing tape VKP MAX



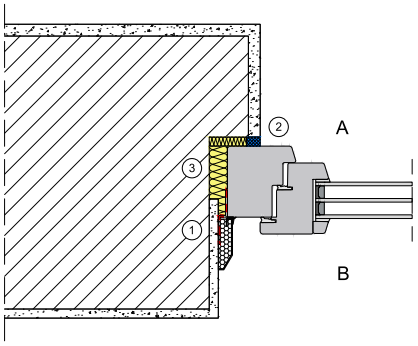
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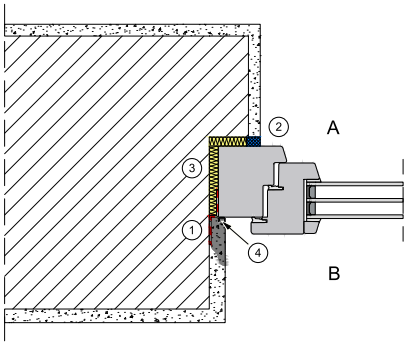
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4. Standard render bead

PRO1_08921428, TDB, Rev: 0.69, State: 08. 01. 2025

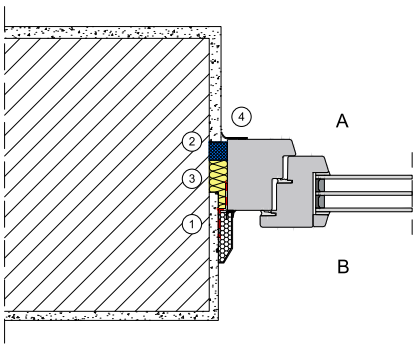
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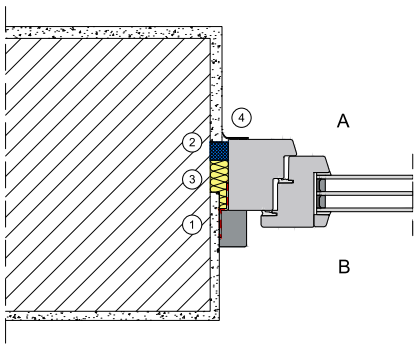
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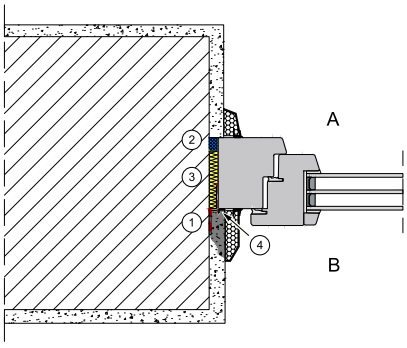
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4. Standard render bead



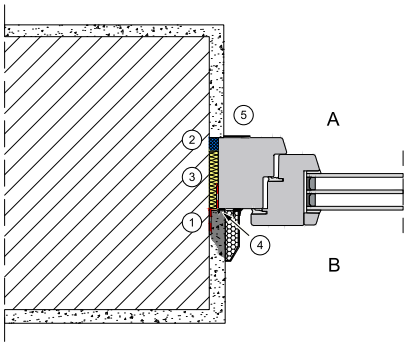
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3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Flat strip with lip



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4. Flat strip with lip



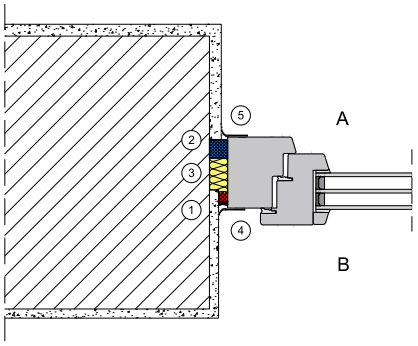
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3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Standard render bead



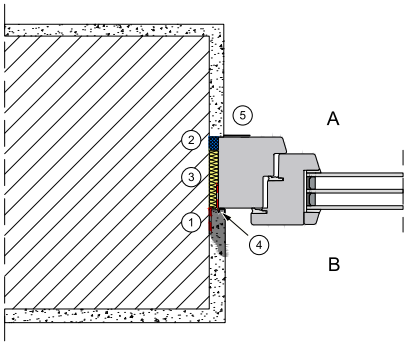
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4. Render bead Standard 5. Flat strip with lip

PR01_08921428, TDB, Rev: 0.69, State: 08.01.2025

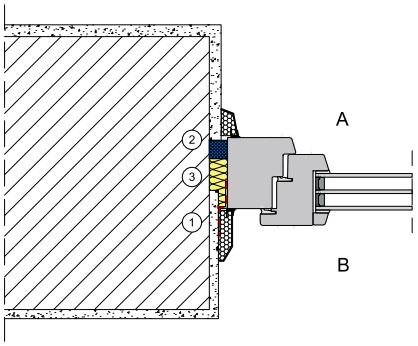
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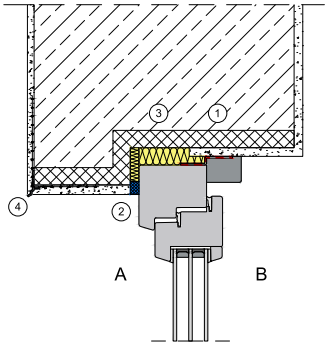
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2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Flat strip with lip



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4. Standard render bead
5. Flat strip with lip



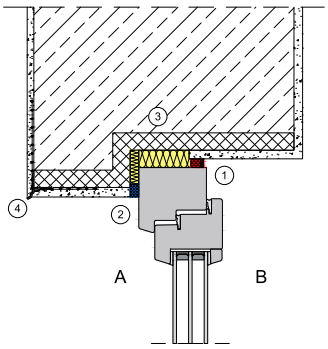
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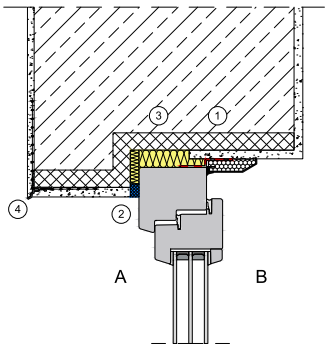
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2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Drip edge profile UP

PRO1_08921428, TDB, Rev: 0.69, State: 08.01.2025

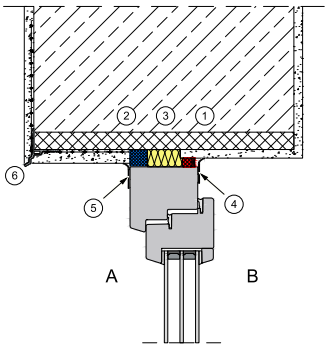
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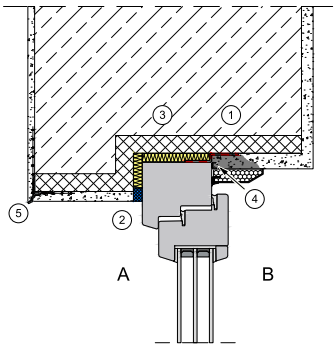
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2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Drip edge profile UP



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2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Drip edge profile UP



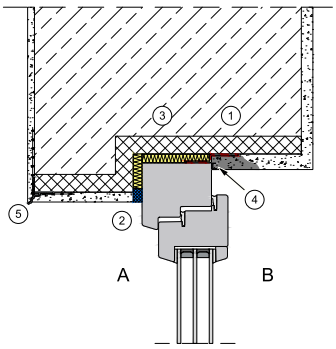
1. PE backfill sealant
2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Flat strip with outer seal, flat strip with seal
5. Drip edge profile UP



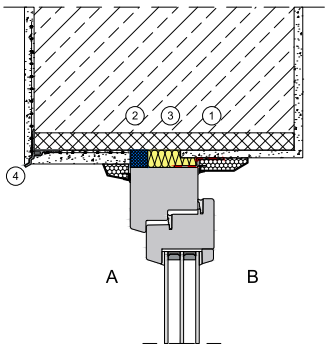
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2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Standard render bead
5. Drip edge profile UP

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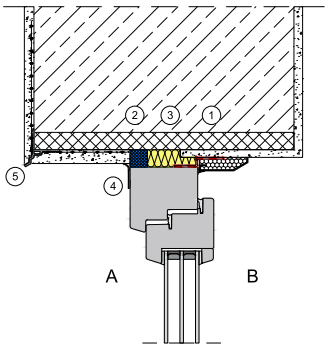
TECHNICAL DATA SHEET



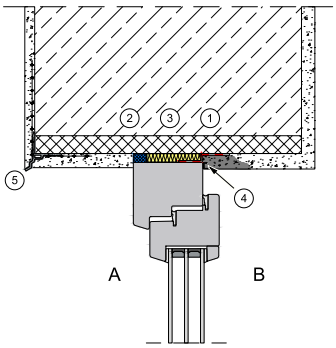
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2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Standard render bead
5. Drip edge profile UP



1. Window sealing tape Universal Euraseal U-305, window sealing tape Universal Euraseal U-115, window sealing tape inside Euraseal I-300, window sealing tape Universal Euraseal U-300
2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Drip edge profile UP



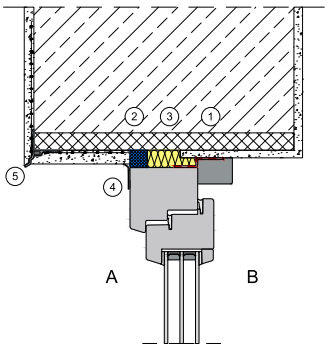
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2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Flat strip with lip
5. Drip edge profile UP



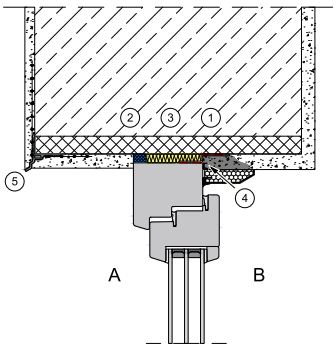
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2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Standard render bead
5. Drip edge profile UP

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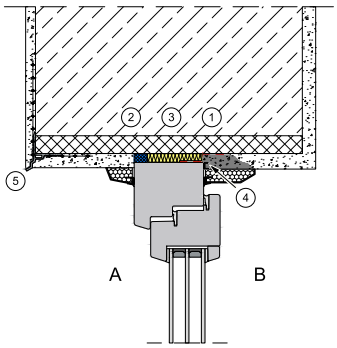
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2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Flat strip with lip
5. Drip edge profile UP



1. Window sealing tape Universal Euraseal U-305, window sealing tape Universal Euraseal U-119, window sealing tape inside Euraseal I-300, window sealing tape Universal Euraseal U-300
2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Standard render bead
5. Drip edge profile UP



1. Window sealing tape Universal Euraseal U-305, window sealing tape Universal Euraseal U-120, window sealing tape inside Euraseal I-300, window sealing tape Universal Euraseal U-300
2. Sealing tape VKP PLUS, sealing tape VKP MAX
3. 1C gun foam PURLOGIC Top, 1C gun foam PURLOGIC Flex
4. Standard render bead
5. Drip edge profile UP

Application area

For insulating and filling window joints, pipe openings, wall openings, wall joints, cavities, refrigerated trucks, walk-in refrigerators, roof finishing, roller shutter boxes and window sills.

Application information

Shake can vigorously 20 times before use. Surfaces must be clean, solid and free from dust and grease. Pre-treat highly absorbent surfaces with PURlogic® universal primer, art. no. 0890 55. Adhesion surfaces must be moistened with water before the foam is applied. Moisten again if several foam beads are applied. Screw the can all the way into the gun support - do not screw too far or tilt. Foam continues to expand after application. Immediately remove fresh splashes of foam with PURlogic® Clean, art. no. 0892 160. Thoroughly clean the gun and valve after use. If you need to interrupt your work, leave the can attached and turn the dosing screw all the way to close and seal the gun. If the gun is not intended to be used for a prolonged period of

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time, it needs to be rinsed as follows: Quickly screw the PU foam cleaner with the screw adapter onto the gun. Actuate the outlet until clear liquid comes out. In addition, carefully remove foam residue from the outside of the gun using PU foam cleaner. The contents of the can must be used within 4 weeks.

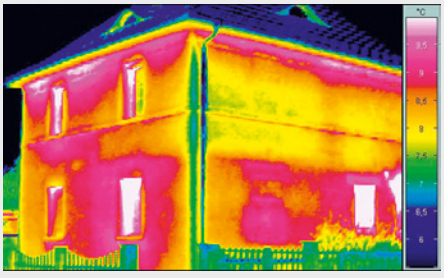
Proof of performance

Perimeter sealing systems according to ift certification programme QM360: 2014, Reg. no. 188 7050098

EMICODE EC1plus: Very low emissions: The EMICODE classification system distinguishes the environmental and health compatibility of construction products. The lowest-emission products bear the EC1plus mark.

Notice

Meets RAL requirements for middle layer insulation.
Adheres to concrete, stone, hard PVC, metal and wood. Does not adhere to polyethylene, silicone, PTFE and grease. PURLOGIC FLEX can be applied with PURLOGIC Xpress and PURLOGIC. Primer should be applied to porous and absorbent substrates. Unhardened foam must not come into contact with wet adhesive.



As a result of building movements and length expansi-onsin the event of temperature fluctuations, especially in the case of dark windows, the
risk of thermal bridges arising in the case of polyurethane foams, which are common on the market, is increased. The leaky building connection joint resulting from this can be made visible with thermography – see red areas.



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The usage instructions are recommendations based on the tests we have conducted and our experience; carry out your own tests before each application. Due to the large number of applications and storage and processing conditions, we do not assume any liability for a specific application result. Insofar as our free customer service provides technical information or acts as an advisory service, no responsibility is assumed by this service except where the advice or information given falls within the scope of our specified, contractually agreed service or the advisor was acting deliberately. We guarantee consistent quality of our products. We reserve the right to make technical changes and further develop products.

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HERSTELLERERKLÄRUNG

Firma	Adolf Würth GmbH & Co. KG
Artikelnummer	08921428
Produktbezeichnung	1K-Pistolenschaum PURlogic Flex
Anwendung/ Beschreibung	1K-Premiumschaum für die elastische Fugendämmung

Anforderungen	Erfüllt	Bemerkung
SVHC	Ja	s. SDB* (Abschnitt 3.2)
VOC-Gehalt	Ja	s. SDB* (Abschnitt 15.1)
CMR-Stoffe der Kategorie 1A/1B < 0,10%	Ja	
TCEP ≤ 0,10 %	Ja	
Chlorparaffine SCCPs < 0,10 %	Ja	
Chlorparaffine MCCPs < 0,10 %	Ja	
Chlorparaffine LCCPs < 0,10 %	Ja	
Frei von halogenierten Treibmitteln	Ja	
halogenierten Flammschutzmittel < 0,10 %	Nein	
weichmacherfrei	Nein	

Vorhandene Dokumente

Sicherheitsdatenblatt (SDB*)	s. Onlineshop
Prüfzeugnisse Sonstiges	EC1+

01/26

Dieses Dokument ist ohne Unterschrift gültig.

Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.
Association for the Control of Emissions from Products for Flooring Installation, Adhesives and Building Materials

GEV EMICODE®

Awarding of licence for the use of EMICODE

Licence Number:	4234/15.05.06
For the product	Würth PURlogic FLEX
Due to application date	13.03.2013

With reference to the classification in accordance with the directives as stipulated in § 10 of the GEV trademark constitution

on behalf of the GEV for the above mentioned product as per § 5, section 4 of the GEV trademark constitution is awarded the licence for the use of the GEV trademark



This product meets with the guidelines for the criteria of use listed reverse.
The company is ordinary member of the GEV.

OM036 14.02.2023
valid until 14.02.2028

The Secretary General
Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials (GEV)
Völklinger Straße 4 · D-40219 Düsseldorf

Requirement guidelines for the awarding of the EMICODE licence

The product mentioned on the front side of the licence has to fulfil among others the following criteria in accordance with the Constitution and the guidelines of the Technical Advisory Board of the GEV:

- The product meets all the legal requirements, especially the chemical laws and their specifications.
- The product is solvent free as specified in clause 2.4 of the “GEV Classification Criteria”, except if it is a surface treatment product. If the product is assigned to a GISCODE product group then this can be labelled.
- A safety data sheet (SDS) according to local law in its respectively valid version is issued for the product.
- Carcinogenic, mutagenic, reprotoxic substances of the categories 1A or 1B are not added during the manufacture of the product.
- The testing of the product is performed in accordance with the GEV Testing Method. VOC determination is performed in a test chamber followed by the Tenax / thermal desorption procedures with subsequent GC/MS analysis.
- The assignment of an EMICODE class is performed according to the following criteria and TVOC/TSVOC concentration levels. The corresponding EMICODE class shall be used to label the product:

1) Installation products, adhesives and construction products

Parameter	EC 1 PLUS	EC 1	EC 2
	max. allowed concentration [µg/m³]		
TVOC after 3 days	≤ 750	≤ 1000	≤ 3000
TVOC after 28 days	≤ 60	≤ 100	≤ 300
TSVOC after 28 days	≤ 40	≤ 50	≤ 100
R value based on German AgBB LCI (NIK) after 28 days	1	-	-
Sum of non-assessable VOC	≤ 40	-	-
Formaldehyde after 3 days	≤ 50	≤ 50	≤ 50
Acetaldehyde after 3 days	≤ 50	≤ 50	≤ 50
Sum of form- and acetaldehyde	≤ 0.05 ppm	≤ 0.05 ppm	≤ 0.05 ppm
Sum of volatile C1A/C1B after 3 days	≤ 10	≤ 10	≤ 10
Any volatile C1A/C1B after 28 days	≤ 1	≤ 1	≤ 1

2) Products for floor surface treatments for parquet, mineral floors and resilient floorings

Parameter	EC 1 PLUS	EC 1	EC 2
	max. allowed concentration [µg/m³]		
Sum TVOC + TSVOC after 28 days	≤ 100 thereof max. 40 SVOC	≤ 150 thereof max. 50 SVOC	≤ 450 thereof max. 100 SVOC
Formaldehyde after 3 days	≤ 50	≤ 50	≤ 50
Acetaldehyde after 3 days	≤ 50	≤ 50	≤ 50
Any volatile C1A/C1B after 3 days	≤ 10	≤ 10	≤ 10
Any volatile C1A/C1B after 28 days	≤ 1	≤ 1	≤ 1