



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

2765-10-1029

PU-Schäume - 1K Adapterschäume (Monomerarmer Schaum)

Product group: Construction chemicals - Construction Foam - PU foam - Polyurethane (PU)



fischerwerke GmbH & Co. KG
Klaus-Fischer-Straße 1
72178 Waldachtal



Product qualities:





SENTINEL HOLDING
INSTITUT



Köttner

Helmut Köttner
Scientific Director

Freiburg, 19 February 2026



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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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SHI Product Assessment 2024

Since 2008, Sentinel Holding Institut GmbH (SHI) has been establishing a unique standard for products that support healthy indoor air. Experts carry out independent product assessments based on clear and transparent criteria. In addition, the independent testing company SGS regularly audits the processes and data accuracy.

Criteria	Product category	Harmful substance limit	Assessment
SHI Product Assessment	Sealants and adhesives	TVOC $\leq 300 \mu\text{g}/\text{m}^3$ Formaldehyd $\leq 24 \mu\text{g}/\text{m}^3$	Indoor Air Quality Certified



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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 vom 17.12.2025			



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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 requirements ⁸	VVOCs, VOCs, SVOC emissions, halogenated propellants, chlorinated paraffins, plasticisers, flame retardants	Quality level 4
Verification: Herstellererklärung vom 17.12.2025. Sicherheitsdatenblatt vom 31.01.2025 (Druckdatum)			

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 4
Verification: Herstellererklärung vom 17.12.2025. Sicherheitsdatenblatt vom 31.01.2025 (Druckdatum)			



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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 4

Verification: Herstellererklärung vom 17.12.2025. Sicherheitsdatenblatt vom 31.01.2025 (Druckdatum)



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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 vom 17.12.2025



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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		Substances according to Annex C	EU taxonomy compliant
Verification: Sicherheitsdatenblatt vom 31.01.2025 (Druckdatum)			



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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+-Zertifikat vom 19.09.2022			



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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 IBU ("Institut Bauen und Umwelt e.V.") is an initiative of building product manufacturers committed to sustainability in construction. It serves as the programme operator for Environmental Product Declarations (EPDs) in accordance with the EN 15804 standard. The IBU EPD programme provides comprehensive life cycle assessments and environmental impact data for construction products, supported by independent third-party verification.



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.



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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%BCfverfahren/kriterien%20of%20C3%BCr%20Produkte>

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Lizenzerteilung zur Führung des EMICODE

Lizenzierungs-Nummer: 15557/03.06.13

Für den Artikel PU-P EVO 500/750 B2

wird auf Antrag vom 15.09.2022

unter Bezugnahme auf die Einstufung gemäß den nach § 10 der GEV-Zeichensatzung festgelegten Richtlinien

namens der Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V. für den oben genannten Artikel nach § 5 Abs. 4 der GEV-Zeichensatzung die Lizenz zur Führung des GEV-Zeichens



erteilt. Damit erfüllt dieser Artikel die rückseitig aufgeführten Kriterien.
Die Firma ist ordentliches Mitglied der GEV.

OM096 19.09.2022
gültig bis 19.09.2027

Der Geschäftsführer
Gemeinschaft Emissionskontrollierte Verlegewerkstoffe,
Klebstoffe und Bauprodukte e.V.
Völklinger Straße 4 · D-40219 Düsseldorf

Hinweise zu den Voraussetzungen über die Vergabe der Lizenz für den EMICODE

Das gemäß vorseitiger Lizenz eingestufte Produkt hat nach der Satzung und den Richtlinien des Technischen Beirats der GEV u.a. den folgenden Kriterien zu genügen:

- Das Produkt entspricht allen gesetzlichen Bestimmungen, insbesondere denen des Chemikalienrechtes und seiner Verordnungen.
- Das Produkt ist nach der Definition der TRGS 610 lösemittelfrei, sofern es sich nicht um ein Oberflächenprodukt handelt. Soweit es einer Produktgruppe nach GISCODE zuzuordnen ist, wird diese angegeben.
- Für das Produkt wird ein Sicherheitsdatenblatt nach lokalem Recht in der jeweils aktuellen Fassung erstellt.
- Krebserregende, erbgutverändernde oder fruchtschädigende Stoffe der Klassen 1A und 1B werden dem Produkt bei der Herstellung nicht zugesetzt.
- Die Prüfung des Produktes erfolgt nach der definierten „GEV-Prüfmethode“. Die VOC-Bestimmung wird dabei in einer Prüfkammer nach dem Tenax-Thermodesorptions-Verfahren mit nachgeschalteter GC/MS-Analyse durchgeführt.
- Die Einstufung in EMICODE-Klassen erfolgt entsprechend den nachstehenden Bezeichnungen und TVOC/TSVOC-Konzentrationsbereichen. Zur Produktkennzeichnung ist die zutreffende EMICODE-Klasse zu verwenden:

1) Verlegewerkstoffe, Klebstoffe und Bauprodukte

Parameter	EC 1 ^{PLUS}	EC 1	EC 2
	max. zulässige Konzentration [$\mu\text{g}/\text{m}^3$]		
TVOC nach 3 Tagen	≤ 750	≤ 1000	≤ 3000
TVOC nach 28 Tagen	≤ 60	≤ 100	≤ 300
TSVOC nach 28 Tagen	≤ 40	≤ 50	≤ 100
R-Wert basierend auf AgBB-NIK-Werten nach 28 Tagen	1	-	-
Summe der nicht bewertbaren VOC	≤ 40	-	-
Formaldehyd nach 3 Tagen	≤ 50	≤ 50	≤ 50
Acetaldehyd nach 3 Tagen	≤ 50	≤ 50	≤ 50
Summe von Form- und Acetaldehyd	$\leq 0,05$ ppm	$\leq 0,05$ ppm	$\leq 0,05$ ppm
Summe von flüchtigen K1A/K1B Stoffen nach 3 Tagen	≤ 10	≤ 10	≤ 10
Jeder flüchtige K1A/K1B Stoff nach 28 Tagen	≤ 1	≤ 1	≤ 1

2) Oberflächenbehandlungsmittel für Parkett, mineralische Böden und elastische Bodenbeläge

Parameter	EC 1 ^{PLUS}	EC 1	EC 2
	max. zulässige Konzentration [$\mu\text{g}/\text{m}^3$]		
Summe TVOC + TSVOC nach 28 Tagen	≤ 100 davon max. 40 SVOC	≤ 150 davon max. 50 SVOC	≤ 450 davon max. 100 SVOC
Formaldehyd nach 3 Tagen	≤ 50	≤ 50	≤ 50
Acetaldehyd nach 3 Tagen	≤ 50	≤ 50	≤ 50
Jeder flüchtige K1A/K1B Stoff nach 3 Tagen	≤ 10	≤ 10	≤ 10
Jeder flüchtige K1A/K1B Stoff nach 28 Tagen	≤ 1	≤ 1	≤ 1

PU-P EVO 750 B2 #563227

Merkmal	Wert	Einheit	Prüfvorschrift / Bemerk.
Chemische Basis	1K monomerarmer Polyurethanschaum		
Isocyanatgehalt	< 0,1	%	
Farbe	weiß		
Inhalt	750	ml	
Baustoffklasse	B2		DIN 4102-1
Klebfreizeit	20 -25	min	EN 17333-3
Schneidzeit	95 - 110	min	EN 17333-3
Voll belastbar	12	h	30 mm Strang
Schaumausbeute, freigeschäumt (750 ml)	bis zu 35	l	EN 17333-1
Nachexpansion	170 - 220	%	EN 17333-2
Zugfestigkeit	100 - 105	kPa	EN 17333-4, ausgehärteter Schaum
Reißdehnung	30 - 35	%	EN 17333-4, ausgehärteter Schaum
Scherfestigkeit	55	kPa	EN 17333-4, feucht
Druckfestigkeit (bei 10 % Stauchung)	20 - 25	kPa	EN 17333-4, ausgehärteter Schaum
Dimensionsstabilität	± 5	%	EN 17333-2, ausgehärteter Schaum
Rohdichte	~ 19	kg/m ³	EN 17333-1, freigeschäumt
Standfestigkeit im Spalt	standfest		
Lagerhaltbarkeit	18	Monate	bei + 10 bis + 20 °C
Verarbeitungstemperatur	+5 bis +30	°C	
Optimale Verarbeitungstemperatur	+20	°C	
Temperaturbeständigkeit	-40 bis +60	°C	ausgehärteter Schaum

Wärmeleitfähigkeit (λ)	0,035	W/(m*K)	
Wasserdampfdiffusions-Widerstandszahl	$\mu = 41 / SD = 0.9 \text{ m}$		Materialdicke: 21 mm
Fugenschalldämm-Maß	64	dB	Fugenbreite 10 mm
Luftdurchlässigkeit	kein messbarer Luftdurchgang		
Aushärtung	chemisch durch Reaktion mit Luftfeuchtigkeit		
Normen, Zertifikate	<ul style="list-style-type: none"> • EMICODE: EC1 plus • VOC Emissionsklasse: A+ • Deutsches Gütesiegel für nachhaltiges Bauen (DGNB): Qualitätsstufe 4 		

Produktbeschreibung

fischer PU-P EVO B2 ist ein einkomponentiger, monomerarmer Polyurethanschaum mit einem Restgehalt an freiem Isocyanat von $< 0,1 \%$. Der Schaum ist ideal zum Füllen und Dämmen von Fugen und Hohlräumen, wie z.B. von kleinen Mauerausparungen, Mauerdurchbrüchen, Leitungsdurchführungen und zum Hinterfüllen von isolierenden Abdichtungen von Anschlussfugen bei Fenstern und Rollladenkästen.

Das Produkt kann wahlweise mit der Pistole oder mit dem Adapter verarbeitet werden.

Anwendungshinweise

Dieser Füll- und Dämmschaum haftet auf allen üblichen Baumaterialien, ausgenommen Polyethylen, Polypropylen, Silikon, Teflon, Öle und Fette, o. ä.. Der ausgehärtete Schaum ist halbhart, elastisch, verrottungsfest, feuchtigkeitsbeständig und alterungsbeständig (vor UV-Strahlung schützen). Die Untergründe müssen fest, sauber, staub- und fettfrei sein.

Vor der Verarbeitung die Untergründe ausreichend mit Wasser befeuchten. Schichtdicken von mehr als 50 mm in mehreren Lagen schäumen und zwischenfeuchten. Zu kalte Dosen vorsichtig im lauwarmen Wasserbad erwärmen. Niemals über $50 \text{ }^\circ\text{C}$ erhitzen, da sonst Berstgefahr. Zu heiße Dosen im Wasserbad abkühlen.

Verarbeitung des Schaumes mit Adapter:

Pistolenring im Gegenuhrzeigersinn von der Dose abschrauben. Winkeladapter bis zum Anschlag auf das Ventil schrauben. **Dose vor Gebrauch gut schütteln! (ca. 30 x)**. Der Schaumaustritt ist durch Druck auf den Adapterhebel genau regulierbar.

Nach der Verarbeitung den Adapterschlauch in die Aufnahmevorrichtung schieben und über die Dichtlippe stülpen. Auf festen Sitz achten. Damit sind Arbeitsunterbrechungen von mehreren Wochen möglich. Zur Wiederverwendung den Adapterschlauch aus der Aufnahmevorrichtung ziehen und den Schaum erneut gut schütteln (wie oben beschrieben).

Verarbeitung des Schaumes mit Schaumpistole:

Bedienungsanleitung der Dosierpistole beachten. Vor dem Aufschrauben der Dose auf die Dosierpistole, **Dose ca. 30x gut schütteln**. Die Dose hinstellen und die Dosierpistole auf den Gewinding der Dose aufschrauben. Dabei das Gewinde nicht verkanten oder überdrehen. Bei längeren Unterbrechungen ist das Schütteln zu wiederholen.

Weitere Informationen zum Umgang entnehmen Sie bitte dem Sicherheitsdatenblatt; dieses enthält wichtige Hinweise.

Die Anwendungshinweise in diesem technischen Datenblatt sowie unsere anwendungstechnische Beratung in Wort und Schrift erfolgen nach bestem Wissen, beinhalten aber weder Zusagen an die Beschaffenheit oder Verwendbarkeit der Produkte noch selbständige oder unselbständige Garantiezusagen jeglicher Art.

Wir empfehlen vor Verwendung unserer Produkte stets die Eignung für den vorgesehenen Verwendungszweck konkret zu prüfen.

Aufgrund der Vielfalt der Anwendungsmöglichkeiten des einzelnen Produkts und den nicht einschätzbaren Gegebenheiten am Ort der Verarbeitung empfehlen wir darüber hinaus vor Verwendung die Funktion auf den Substraten vor Verwendung zu erproben.

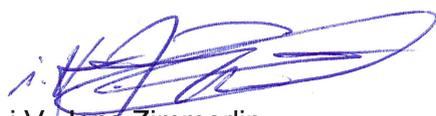
Declaration of conformity for products with Model EPDs

The Association of the European Adhesive & Sealant Industry (FEICA), of which fischerwerke is a member via DBC and IVK, has developed so-called Model Environmental Product Declarations (Model EPDs) and had them independently verified by the Institute Construction and Environment (IBU). These IBU verified Model EPDs have been made publicly available by FEICA and IBU. The Model EPDs depict the current production technology in Europe. Based on the product formulations it was checked if our products were covered by the Model EPDs

This Declaration confirms that the product

PU-P EVO 750 B2 **PU EVO 400 B2**

produced in Germany is covered by the attached Model EPD “Products based on polyurethane or silane-modified polymer, group 4” (Declaration number **EPD-FEI-20220108-IBG1-EN**). This means that the Life Cycle Assessment (LCA) data and the remaining content of the attached Model EPD apply to the above-mentioned product and may thus be used for the evaluation of the sustainability of buildings where the product is applied.


i.V. Jens Zimmerlin
fischerwerke GmbH & Co. KG


ppa. Dr. Joachim Schätzle
fischerwerke GmbH & Co. KG

Waldachtal, February 20th, 2025

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ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	DBC, EFCC, FEICA, IVK
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-FEI-20220108-IBG1-EN
Issue date	01.06.2022
Valid to	31.05.2027

Products based on polyurethane or silane-modified polymer, group 4

DBC - Deutsche Bauchemie e.V.

EFCC - European Federation for Construction Chemicals

FEICA - Association of the European Adhesive and Sealant Industry

IVK - Industrieverband Klebstoffe e.V.

www.ibu-epd.com | <https://epd-online.com>



ECO PLATFORM

EPD
VERIFIED



1. General Information

DBC - Deutsche Bauchemie e.V.
 EFCC - European Federation for Construction Chemicals
 FEICA - Association of the European Adhesive and Sealant Industry
 IVK - Industrieverband Klebstoffe e.V.

Programme holder

IBU – Institut Bauen und Umwelt e.V.
 Hegelplatz 1
 10117 Berlin
 Germany

Declaration number

EPD-FEI-20220108-IBG1-EN

This declaration is based on the product category rules:

Reaction resin products, 07.2014
 (PCR checked and approved by the SVR)

Issue date

01.06.2022

Valid to

31.05.2027

Dipl. Ing. Hans Peters
 (chairman of Institut Bauen und Umwelt e.V.)

Dr. Alexander Röder
 (Managing Director Institut Bauen und Umwelt e.V.)

Products based on polyurethane or silane-modified polymer, group 4

Owner of the declaration

DBC, Mainzer Landstr. 55, D-60329 Frankfurt a.M.
 EFCC, 172 Boulevard du Triomphe, B-1160 Brussels
 FEICA, Rue Belliard 40, B-1040 Brussels
 IVK, Völklingerstr. 4, D-40219 Düsseldorf

Declared product / declared unit

1 kg product based on polyurethane or silane-modified polymer; density 0.85 - 1.8 g/cm³

Scope:

This verified EPD entitles the holder to bear the symbol of the Institut Bauen und Umwelt e.V. It exclusively applies for products produced in Europe and for a period of five years from the date of issue. This EPD may be used by members of DBC, EFCC, FEICA and IVK and their members provided it has been proven that the respective product can be represented by this EPD. For this purpose a guideline is available at the secretariats of the four associations. The members of the associations are listed on the respective websites.

The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of *EN 15804+A2*. In the following, the standard will be simplified as *EN 15804*.

Verification

The standard *EN 15804* serves as the core PCR
 Independent verification of the declaration and data
 according to *ISO 14025:2011*

internally externally

Matthias Schulz
 (Independent verifier)

2. Product

2.1 Product description/Product definition

This EPD comprises reactive products based on polyurethane (PU) or silane-modified polymer (SMP) with a volatile organic compound (VOC) content >10 % and ≤50 % (VOC definition according to *Decopaint Directive*) and a castor oil-/derivatives content ≤10 %. The one- or two-component reactive PU products are manufactured using polyols and isocyanates. Reactive products based on SMP polymers are usually manufactured as a one-component system from polyols and alkoxy silane in a preliminary stage. The aqueous systems consist of (a) dispersion and are crosslinked by a dispersible isocyanate. The products

fulfil manifold, often specific, functions in the construction, furnishing and repair of buildings. The product displaying the highest environmental impacts was used as a representative product for calculating the Life Cycle Assessment results (worst-case approach).

For the placing on the market in the European Union/European Free Trade Association (EU/EFTA) with the exception of Switzerland) products falling under Regulation (EU) No 305/2011 (*CPR*) need a Declaration of Performance taking into consideration either the relevant harmonised European standard or

the European Technical Assessment and the CE marking. For the application and use of the products the respective national provisions apply.

2.2 Application

Products based on polyurethane or silane-modified polymer, group 4, are used for the following applications:

Module 1: Adhesives for parquet and floor coverings

Parquet adhesives in accordance with *EN ISO 17178* for wooden and parquet floors and flooring adhesives in accordance with *EN ISO 22636* for floor coverings

Module 2: Reactive products for protecting and repairing concrete structures

Products for increasing the durability of concrete and reinforced concrete structures as well as for new concrete and for maintenance and repair work (requirements 2.1), products for structural bonding of strengthening materials to an existing concrete structure (requirements 2.2) and products for concrete injection for filling cracks, voids and interstices in concrete (requirements 2.3)

Module 3: Liquid-applied roof waterproofing kits

Reactive products for waterproofing roof constructions which are applied on site

Module 4: Reactive products for liquid-applied bridge deck waterproofing kits

Products for liquid-applied waterproofing for use on concrete bridge decks

Module 5: Screed material, floor screeds and decorative floors

Products for screed/synthetic resin screed for use in floor constructions

Module 6: Reactive products as an adhesive for tiles

Tile adhesives for internal and external tile installations on walls, floors and ceilings

Module 7: Adhesives and sealants

Reactive products for use as:

- Structural and repair adhesives
- Surface and joint sealants

Applications in accordance with the manufacturer's technical documentation/declaration of performance

Module 8: Reactive products for watertight covering kits

Products for waterproofing floors and/or walls in wet rooms inside buildings

Module 9: Reactive products for liquid-applied waterproofing

Liquid applied products for waterproofing of buildings

Module 10: Reactive products for waterproofing and/or for pre-treating mineral substrates

Applications in accordance with the manufacturer's technical documentation

Module 11: Liquid-applied waterproofing membranes for use beneath ceramic tiling

Module 12: One-component foam (OCF)

One component foam in a can is a one-component,

self-expanding, ready to use polyurethane foam used for various construction applications. It consists of a low viscous semi-fluid in a can that leaves the can as a froth and immediately forms a polyurethane foam.

12.1 Window & External Door Sealing & Insulation:

Installing mechanically fixed external windows and doors with an OCF, as part of a system including sealants and tapes

12.2 Door Installation & Fixation:

Fixing interior doors with an OCF

12.3 General Gap Filling:

Filling of regularly and irregularly shaped spaces between at least two surfaces made of typical building materials with a one-component foam (OCF)

Module 13: Sealants for glazing

Two component reactive sealants are to be used as the second barrier of the structural hermetic seal in insulating glass units.

Module 14: Bonded glazing sealants

One and two component reactive sealants are used for the bonding of insulating glass units in the window frame.

2.3 Technical Data

The density of the products is between 0,85 and 1,8 g/cm³, other relevant technical data can be found in the manufacturer's technical documentation.

Module 1: Reactive products as adhesive for parquet and floor coverings

The minimum requirements of *EN ISO 17178* and *EN ISO 22636* must be maintained.

Module 2: Reactive products for protecting and repairing concrete structures

2.1 The requirements on essential characteristics for all intended uses in accordance with *EN 1504-2*, Tables 1 and 5 must be maintained. These are:

- Permeability to CO₂ (*EN 1062-6*)
- Water vapour permeability (*EN ISO 7783-1/-2*)
- Capillary absorption and permeability to water (*EN 1062-3*)
- Adhesive strength by pull-off test (*EN 1542*)

2.2 Essential characteristics for all intended uses in accordance with *EN 1504-4*, Tables 3.1 and 3.2 (manufacturer's declaration of performance)

2.3 Requirements on essential characteristics for all intended uses in accordance with *EN 1504-5*, Table 3:

- Injectability (*EN 1771*)
- Viscosity (*EN ISO 3219*)

Further essential characteristics in accordance with the manufacturer's technical documentation/declaration of performance

Module 3: Liquid-applied roof waterproofing kits

The minimum requirements of *EAD 030350-00-0402* Liquid-applied roof waterproofing kits must be maintained. The essential characteristics are to be specified in accordance with the European Technical Assessment (ETA, specification no.).

Module 4: Reactive products for liquid-applied bridge deck waterproofing kits

The minimum requirements of *ETAG 033* Liquid-applied bridge deck waterproofing kits must be maintained. The essential characteristics are to be specified in accordance with the European Technical Assessment (ETA, specification no.).

Module 5: Screed material, floor screeds and decorative floors

The requirements on essential characteristics according to EN 13813 'Screed material and floor screeds – Screed materials – Properties and requirements' must be maintained. For synthetic resin screeds, these are:

- Bond strength (EN 13892-8)
- Reaction to fire (EN 13501-1)

Further essential characteristics in accordance with the manufacturer's technical documentation / declaration of performance

Module 6: Reactive products as an adhesive for tiles

The requirements on essential characteristics according to EN12004, must be maintained. These are:

- Tensile adhesion strength after dry storage (EN 12004-2)
- Tensile adhesion strength after water immersion (EN 12004-2)
- Tensile adhesion strength after heat ageing (EN 12004-2)
- Tensile adhesion strength after freeze/thaw cycles (EN 12004-2)
- Open time: Tensile strength (EN 12004-2)

Further essential characteristics in accordance with the manufacturer's technical documentation

Module 7: Adhesives and sealants

Performance characteristics in accordance with the manufacturer's technical documentation/declaration of performance

Module 8: Reactive products for watertight covering kits

The minimum requirements of EAD 030352-00-0503 Liquid applied watertight covering kits for wet room floors and/or walls must be maintained. The essential characteristics are to be specified in accordance with the European Technical Assessment (ETA, specification no.).

Module 9: Reactive products for liquid-applied waterproofings

The minimum requirements of the test principles regarding the issuing of general building authority test certificates for liquid-applied products for waterproofing of buildings (PG-FLK) must be maintained. The characteristics for the proof of usability are to be specified in accordance with the test principles for granting general building authority test certificates for liquid applied polymer products for waterproofing buildings

Module 10: Reactive products for waterproofing and/or for pre-treating mineral substrates

Name	Value	Unit
Density acc. to EN ISO 2811-1	700 - 1800	kg/m ³
Shore hardness A acc. to ISO 48-4	>15	
Shore hardness D acc. to ISO 48-4	>5	
Viscosity acc. to ISO 3219-2	<100	Pas

Other performance characteristics in accordance with the manufacturer's technical documentation/declaration of performance

Module 11: Liquid-applied waterproofing membranes for use beneath ceramic tiling

The minimum requirements on essential characteristics according to EN 14891 - Liquid applied water-impermeable products for use beneath ceramic tiling - Definitions, specifications and test methods- must be maintained. These are:

- Initial tensile adhesion strength
- Tensile adhesion strength after water contact
- Tensile adhesion strength after heat ageing
- Tensile adhesion strength after freeze-thaw cycles
- Waterproofing
- Crack bridging ability

Module 12: One-Component Foams

Physical data of the one-component foam must be indicated in accordance with the respective product standards; these can include, for example:

12.1 Window & External Door Sealing & Insulation
Tensile Strength EN 17333-4, Movement Capability EN 17333-4, Curing Pressure EN 17333-2, Thermal conductivity EN 17333-5, Sound Insulation EN ISO 717-1, Post expansion EN 17333-2

12.2 Door Installation & Fixation

Shear Strength EN 17333-4, Tensile Strength EN 17333-4, Compression Strength EN 17333-4, Curing pressure EN 17333-2

12.3 General Gap Filling

Sagging EN 17333-3 Other performance characteristics in accordance with the manufacturer's technical documents/declaration of performance.

Module 13: Sealants for glazing

Reactive sealants must comply with EN 1279-4 Performance characteristics in accordance with the manufacturer's technical documentation/declaration of performance

Module 14: Bonded glazing sealants

Reactive sealants must comply with RAL-GZ 716 part 2 and iff-Guideline VE-08/4.

Performance characteristics in accordance with the manufacturer's technical documentation/declaration of performance

2.4 Delivery status

Liquid or pasty in containers made of tinplate or plastic packed in separate or combi-containers for the required mixing ratio. Packages containing one kg of product in different types of containers. Sealants in plastic cartridges and foil packs. Typical container sizes contain 10 to 25 kg of material. For major works, vats containing approx. 200 kg or IBCs (intermediate bulk containers) containing 1 tonne or more are also used. The LCA is based on tinplate, plastic and wood packaging.

2.5 Base materials/Ancillary materials

Products based on polyurethane or silane-modified polymer with a VOC content >10 % and ≤50 % and a

castor oil/-derivatives content ≤ 10 % usually comprise a reactive polymer and a crosslinking system. The polymer component contains polyether and/or polyester polyols. Crosslinking takes place after installation on site. In the case of two-component systems, this involves the use of pre-polymers and polymers based on typically methylene diphenyl diisocyanate (MDI), toluene diisocyanate (TDI), hexamethylene diisocyanate (HDI) or isophorone diisocyanate (IPDI). The resin mixing ratio is adjusted according to the stoichiometric requirements. Crosslinking starts directly after the components have been mixed. There are also one-component reactive polymer formulations based on PU or SMP which crosslink in the presence of moisture. They comprise prepolymers based on e.g. MDI, TDI, HDI, IPDI or those with alkoxy-silane groups in the case of SMP formulations. In formulations with aqueous dispersions, dispersible isocyanates are used for crosslinking. The formulations can contain auxiliary materials such as accelerators, catalysts, wetting agents, foam regulators and viscosity regulators for fine-tuning the product features. Typically, the products covered by this EPD contain the following ranges of base materials and auxiliaries:

Polyol component: up to approx. 50 %

Crosslinking component: up to approx. 95 %

SMP component: up to approx. 80 %

Plasticiser: ~ 0-25 %

Additives / Pigments: ~ 0-30 %

Water: ~ 0-60 %

VOC: > 10 % and ≤ 50 % according to the *Decopaint Directive (mandatory)*

Castor oil and derivatives: ≤ 10 % (mandatory)

These ranges are average values and the composition of products complying with the EPD can deviate from these concentration levels in individual cases. More detailed information is available in the respective manufacturer's documentation (e.g. product data sheets).

Note: For companies to declare their products within the scope of this EPD it is not sufficient to simply comply with the product composition shown above.

The application of this EPD is only possible for member companies of DBC, EFCC, FEICA, and IVK member associations and only for specific formulations with a total score below the declared maximum score for a product group according to the associated guidance document.

1. substances from the "Candidate List of Substances of Very High Concern for Authorisation" (SVHC)

If this product contains substances listed in the candidate list (latest version) exceeding 0.1 percentage by mass, the relevant information can be found in the safety data sheet of the relevant product covered by this model EPD.

2. CMR substances in categories 1A and 1B

If this product contains other carcinogenic, mutagenic, reprotoxic (CMR) substances in categories 1A or 1B which are not on the candidate list, exceeding 0.1 percentage by mass, the relevant information can be found in the safety data sheet of the relevant product covered by this model EPD.

3. Biocide products added to the construction product

If this construction product contains biocide products, the active substances, information on the

concentration and/or concentration range, the product type together with information on their hazardous properties are listed in the safety data sheet of the respective product.

2.6 Manufacture

The components of the formulation are usually mixed batch-wise and packaged for delivery.

2.7 Environment and health during manufacturing

As a general rule, no other environmental protection measures other than those specified by law are necessary.

2.8 Product processing/Installation

Products based on polyurethane or silane-modified polymer, are processed by trowelling/knife-coating or rolling, pouring, spraying or injection.

Precautions for safe handling and storage (e.g. air exchange, exhaust ventilation, personal protective measures, precautions required in the handling of isocyanates, conditions for safe storage) must be observed in accordance with the information on the safety data sheet.

2.9 Packaging

A detailed description of packaging is provided in section 2.4. Empty containers and clean foils can be recycled.

2.10 Condition of use

During the use phase, products based on polyurethane or silane-modified polymer are crosslinked and essentially comprise an inert three-dimensional network. They are long-lasting products which protect our buildings in the form of adhesives, coatings or sealants as well as make an essential contribution in retaining their function and long-term value.

2.11 Environment and health during use

Option 1: Products for applications outside indoor areas with permanent stays by people

During use, the reactive products lose their reactive properties and become inert. No risks are known for water, air and soil if the products are used as designated.

Option 2: Products for applications inside indoor areas with permanent stays by people

When used in indoor areas with permanent stays by people, evidence of the emission performance of construction products in contact with indoor air must be submitted according to national requirements (see chapter 7). No further influences by emissions on the environment and health are known.

2.12 Reference service life

Cured products based on polyurethane or silane-modified polymer fulfil manifold, often specific functions in the construction or refurbishment of building structures. They decisively improve the usability of building structures and significantly extend their original service lives. The anticipated reference service life depends on the specific installation situation and the exposure associated with the product. It can be influenced by weathering as well as mechanical or chemical loads.

2.13 Extraordinary effects

Fire

Even without any special fire safety features, cured products based on polyurethane or silane-modified polymer comply with at least the requirements of *EN 13501-1* standard for fire classes E and Efl. In terms of the volumes applied, they have only a marginal influence on the fire performance characteristics (e.g. smoke gas development) of the building structure in which they have been installed. As crosslinked polyurethane systems do not melt or drip, they do not contribute towards spreading fire.

Water

Cured reactive products based on polyurethane or silane-modified polymer are chemically inert and insoluble in water. They are often used to protect building structures from harmful water ingress or the effects of flooding.

Mechanical destruction

Mechanical destruction of cured reactive products based on polyurethane or silane-modified polymer does not lead to any decomposition products which are harmful to the environment or health.

2.14 Re-use phase

According to present knowledge, no environmentally harmful effects are generally anticipated in landfilling, for example, as a result of de-construction and recycling of building materials with adherent

crosslinked products. If the crosslinked products can be removed from construction products without large effort, thermal recovery is a practical recycling variant on account of their energy content. Minor adhesion is not taken into consideration during disposal. It does not interfere with the disposal/recycling of the remaining components/building materials.

2.15 Disposal

Residual material which cannot be used or recycled must be combined at a specified ratio and hardened. Hardened product residue is not special waste. Non-hardened product residue is hazardous waste. Empty, dried containers (free of drops and scraped clean) are directed to the recycling process. Residue must be directed to proper waste disposal taking into consideration the local guidelines. The following waste codes according to the European List of Waste (*2000/532/EC*) can apply:

Hardened product residue:

European Waste Catalogue (EWC) code 080112 (waste paint and varnish with the exception of that mentioned in 08 01 11)

EWC code 080410 (waste adhesives and sealants other than mentioned in 08 04 09)

2.16 Further information

More information is available on the manufacturer's product or safety data sheets and on the manufacturer's websites or on request. Valuable technical information is also available on the associations' websites.

3. LCA: Calculation rules

3.1 Declared Unit

This EPD refers to the declared unit of 1 kg of product based on polyurethane or silanemodified polymer, group 4; applied into the building with a density of 0.85 - 1.8 g/cm³ in accordance with the *IBU PCR* part B for reaction resin products.

The results of the Life Cycle Assessment provided in this declaration have been selected from the product with the highest environmental impact (worst-case scenario).

Depending on the application, a corresponding conversion factor such as the density to convert volumetric use to mass must be taken into consideration.

The Declaration type is according to *EN 15804*: Cradle to gate with options, modules C1–C3, and module D (A1–A3, C, D) and additional modules.

Declared unit

Name	Value	Unit
Declared unit	1	kg
Gross density	0.85 - 1.8	g/cm ³
Conversion factor to 1 kg	-	-

3.2 System boundary

Modules A1, A2 and A3 are taken into consideration in the LCA:

- A1 Production of preliminary products
- A2 Transport to the plant

- A3 Production incl. provision of energy, production of packaging as well as auxiliaries and consumables and waste treatment

- A4 Transport to site

- A5 Installation, product applied into the building during A5 phase operations and packaging disposal.

This stage considers VOC emissions during the installation phase. The declared product does not contain substances in the formulation that directly emit (as) VOC, but VOCs are generated by a chemical reaction that are occurring during this phase. The end of life for the packaging material considered is described below:

-Incineration, for materials like plastic and wood.

-Landfill, for inert material like metals (where used).

-C1-C2-C3-D

The building deconstruction (demolition process) takes place in the C1 module which considers energy production and consumption in terms of diesel and all the emissions connected with the fuel-burning process to run the machines. After the demolition, the product is transported to the end-of-life processing (C2 module) where all the impacts related to the transport processes are considered. For precautionary principle and as a worst-case scenario, thermal treatment is the only end-of-life scenario considered. This is modelled by the incineration process (module C3) where the product ends its life cycle.

Module D accounts for potential benefits that are beyond the defined system boundaries. Credits are generated during the incineration of wastes and related electricity produced that are occurring in the A5 module.

3.3 Estimates and assumptions

For this EPD formulation and production data defined and collected by FEICA were considered. Production waste was assumed to be disposed of by incineration without credits as a worst-case.

An average of steel and plastic containers, and wooden pallets was considered in the LCA.

3.4 Cut-off criteria

All raw materials submitted for the formulations and production data were taken into consideration. The manufacture of machinery, plant and other infrastructure required for the production of the products under review was not taken into consideration in the LCA.

Transport of packaging materials is excluded.

3.5 Background data

Data from the *GaBi* database SP40 (2020) was used as background data.

3.6 Data quality

Representative products were applied for this EPD and the product in the group displaying the highest

environmental impact was selected for calculating the LCA results. The background data sets used are less than 4 years old.

Production data and packaging are based on details provided by the manufacturer. The formulation used for evaluation refers to a specific product.

The data quality of the background data is considered to be good.

3.7 Period under review

Representative formulations are valid for 2021.

3.8 Allocation

Mass allocation has been applied when primary data have been used and implemented into the LCA model.

3.9 Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account.

The *GaBi* database SP40 (2020) was used.

4. LCA: Scenarios and additional technical information

Characteristic product properties

Information on biogenic Carbon

The packaging material contains biogenic carbon content which is presented below.

Information on describing the biogenic Carbon Content at factory gate

Name	Value	Unit
Biogenic Carbon Content in product	0	kg C
Biogenic Carbon Content in accompanying packaging	0.016	kg C

waste		
Incineration	0.67	kg

Transport to the building site (A4)

Name	Value	Unit
Transport distance	1000	km
Gross weight	34 - 40	t
Payload capacity	27	t

Assembly (A5)

Name	Value	Unit
Other resources for packaging material	0.1	kg
Material loss	0.01	kg

Material loss regards the amount of product not used during the application phase into the building. This amount is 1% of the product, impacts related to the production of this part are charged to the A5 module. This percentage is considered as waste to disposal and impacts of its end of life have been considered in the LCA model and declared in A5.

End of life (C1-C3)

Name	Value	Unit
Collected as mixed construction	0.67	kg

5. LCA: Results

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; ND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

PRODUCT STAGE		CONSTRUCTION PROCESS STAGE			USE STAGE								END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential	
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
X	X	X	X	X	ND	ND	MNR	MNR	MNR	ND	ND	X	X	X	ND	X	

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 kg of product based on polyurethane or silane modified polymer, group 4

Core Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	D
GWP-total	[kg CO ₂ -Eq.]	6.36E+0	5.27E-2	1.96E-1	1.87E-4	8.29E-3	1.48E+0	-6.53E-1
GWP-fossil	[kg CO ₂ -Eq.]	6.28E+0	5.22E-2	1.08E-1	1.78E-4	7.93E-3	1.48E+0	-6.51E-1
GWP-biogenic	[kg CO ₂ -Eq.]	7.23E-2	1.52E-4	8.73E-2	8.28E-6	3.63E-4	5.91E-5	-1.53E-3
GWP-luluc	[kg CO ₂ -Eq.]	1.08E-2	4.22E-4	1.12E-4	4.28E-9	1.87E-7	1.40E-5	-4.58E-4
ODP	[kg CFC11-Eq.]	4.06E-9	6.27E-18	4.06E-11	1.90E-20	8.30E-19	1.75E-16	-6.83E-15
AP	[mol H ⁺ -Eq.]	1.16E-2	1.56E-4	1.44E-4	2.41E-6	2.50E-5	8.76E-4	-9.14E-4
EP-freshwater	[kg P-Eq.]	1.09E-5	1.59E-7	1.14E-7	3.85E-11	1.68E-9	2.95E-8	-8.43E-7
EP-marine	[kg N-Eq.]	3.39E-3	6.96E-5	4.22E-5	1.10E-6	1.15E-5	4.23E-4	-2.36E-4
EP-terrestrial	[mol N-Eq.]	3.62E-2	7.80E-4	4.79E-4	1.20E-5	1.27E-4	4.87E-3	-2.53E-3
POCP	[kg NMVOC-Eq.]	1.25E-2	1.38E-4	3.37E-1	3.29E-6	2.27E-5	1.09E-3	-6.78E-4
ADPE	[kg Sb-Eq.]	1.34E-5	3.74E-9	1.35E-7	5.40E-12	2.36E-10	3.11E-9	-1.07E-7
ADPF	[MJ]	1.34E+2	6.94E-1	1.40E+0	2.55E-3	1.11E-1	3.93E-1	-1.10E+1
WDP	[m ³ world-Eq deprived]	8.54E-1	4.66E-4	2.21E-2	3.53E-7	1.54E-5	1.46E-1	-6.78E-2

Caption: GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 kg of product based on polyurethane or silane modified polymer, group 4

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	D
PERE	[MJ]	8.62E+0	3.90E-2	6.84E-1	8.05E-6	3.51E-4	5.51E-2	-2.42E+0
PERM	[MJ]	5.85E-1	0.00E+0	-5.85E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PERT	[MJ]	9.21E+0	3.90E-2	9.93E-2	8.05E-6	3.51E-4	5.51E-2	-2.42E+0
PENRE	[MJ]	1.09E+2	6.95E-1	1.00E+1	2.56E-3	1.12E-1	1.68E+1	-1.10E+1
PENRM	[MJ]	2.50E+1	0.00E+0	-8.60E+0	0.00E+0	0.00E+0	-1.64E+1	0.00E+0
PENRT	[MJ]	1.34E+2	6.95E-1	1.40E+0	2.56E-3	1.12E-1	3.93E-1	-1.10E+1
SM	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
RSF	[MJ]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
NRSF	[MJ]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	[m ³]	2.98E-2	4.52E-5	6.18E-4	1.44E-8	6.30E-7	3.43E-3	-2.81E-3

Caption: PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources used as raw materials; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA – WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 kg of product based on polyurethane or silane modified polymer, group 4

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	D
HWD	[kg]	3.35E-5	3.23E-8	3.35E-7	2.48E-13	1.08E-11	2.24E-10	-4.41E-9
NHWD	[kg]	2.74E-1	1.06E-4	4.85E-2	2.61E-7	1.14E-5	7.42E-3	-5.12E-3
RWD	[kg]	2.27E-3	8.60E-7	2.46E-5	2.74E-9	1.20E-7	1.59E-5	-8.27E-4
CRU	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MFR	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MER	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EEE	[MJ]	0.00E+0	0.00E+0	2.12E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EET	[MJ]	0.00E+0	0.00E+0	3.86E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0

Caption: HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EEE = Exported thermal energy

RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional: 1 kg of product based on polyurethane or silane modified polymer, group 4

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	D
PM	[Disease Incidence]	ND	ND	ND	ND	ND	ND	ND
IRP	[kBq U235-Eq.]	ND	ND	ND	ND	ND	ND	ND
ETP-fw	[CTUe]	ND	ND	ND	ND	ND	ND	ND
HTP-c	[CTUh]	ND	ND	ND	ND	ND	ND	ND
HTP-nc	[CTUh]	ND	ND	ND	ND	ND	ND	ND
SQP	[-]	ND	ND	ND	ND	ND	ND	ND

Caption PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index

Potential Human exposure efficiency relative to U235, Disclaimer 1 – This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and (from) some construction materials is also not measured by this indicator.

ADP minerals & metals, ADP fossil, WDP, ETF-fw, HTP-c, HTP-nc, SQP, Disclaimer 2 – The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

Additional environmental impact indicators (suggested by EN15804, table 4) are not declared in the EPD. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high and as there is limited experience with the indicator (see ILCD classification in EN 15804, table 5). For this reason, results based on these indicators are not considered suitable for a decision-making process and are thus not declared in the EPD.

6. LCA: Interpretation

The majority of impacts are associated with the production phase (A1-A3). The most significant contribution to the production phase impacts is the upstream production of raw materials as the main driver. Another substantial contributor in the production phase, in the category of Abiotic depletion potential for nonfossil resources (ADPminerals& metals), is the steel sheet used as a packaging material. Emissions associated with the manufacturing of products also have some influence on the Formation potential of tropospheric ozone (POCP) in the production phase. In all EPDs, CO₂ is the most important contributor to Global Warming Potential (GWP). For the Acidification Potential (AP), NO_x and SO₂ contribute the largest share. In some cases, HCl in water also impacts AP due to the use of TiO₂ as a pigment.

The majority of life cycle energy consumption takes place during the production phase (A1-A3). Significant contributions to Primary Energy Demand – Non-renewable (PENRT) come from the energy resources used in the production of raw materials. The largest contributor to Primary Energy Demand – Renewable

(PERT) impacts comes from the consumption of renewable energy resources required for the generation and supply of electricity. It should be noted that Primary Energy Demand – Renewable (PERT) generally represents a small percentage of the production phase primary energy demand with the bulk of the demand coming from non-renewable energy resources.

Transportation to the construction site (A4) and the installation process (A5) make a low contribution to all impacts.

The installation phase influences mainly the Photochemical ozone formation indicator, due to the emission of VOC during the operations. These emissions are not only directly related to the pre-products in the resins, but they are related to the reaction products between pre-products and air components (water and oxygen).

The end-of-life phases influence climate change indicators, due to the incineration processes occurring in the C3 module, the process used for modelling the thermal treatment process of the resin.

7. Requisite evidence

VOC

Special tests and evidence have not been carried out or provided within the framework of drawing up this Model EPD. Some member states require special documentation on VOC emissions into indoor air for specific areas of application. This documentation, as well as documentation for voluntary VOC labelling, has to be provided separately and is specific for product in question.

Evidence pertaining to VOC emissions shall show

- either an attestation of compliance with,
- or documentation of test data that are required in

any of the existing regulations or in any of the existing voluntary labelling programs for low-emitting products, as far as these

(1) include limits for the parameters TVOC, TSVOC, carcinogens, formaldehyde, acetaldehyde, LCI limits for individual substances (including but not limited to the European list of harmonized LCIs), and the R value;

(2) base their test methods on EN 16516;

(3) perform testing and apply the limits after 28 days of storage in a ventilated test chamber, under the conditions specified in EN 16516; some regulations

and programs also have limits after 3 days, on top of the 28 days limits;
 (4) express the test results as air concentrations in the European Reference Room, as specified in EN 16516.

Examples of such regulations are the *Belgian Royal Decree C-2014/24239*, or the *German AgBB/ ABG*. Examples of such voluntary labelling programs are *EMICODE*, *Blue Angel* or *Indoor Air Comfort*.

Relevant test results shall be produced either by an ISO 17025 accredited commercial test lab or by a qualified internal test lab of the manufacturer. Examples for the applied limits after 28 days of storage in a ventilated test chamber are:

- TVOC: 1000 µg/m³

- TSVOC: 100 µg/m³
- Each carcinogen: 1 µg/m³
- Formaldehyde: 100 µg/m³
- LCI: different per substance involved
- R value: 1 (meaning that, in total, 100 % of the combined LCI values must not be exceeded).

Informative Annexes (2 tables):

Table 1 shown below is an overview of the most relevant regulations and specifications as of October 2021, as regards requirements after 3 days of storage in a ventilated test chamber.

Table 2 provides an overview of the most relevant regulations and specifications as of October 2021, as regards requirements after 28 days of storage in a ventilated test chamber. Some details may be missing in the table due to lack of space. Values given represent maximum values/limits.

	TVOC µg/m ³	Sum of carcinogens. C1A,CA2 µg/m ³	Formaldehyde µg/m ³	Acetaldehyde µg/m ³	Sum of Form- and Acetaldehyde
German AgBB/ABG regulation	10 000	10	-/-	-/-	-/-
Belgian regulation	10 000	10	-/-	-/-	-/-
EMICODE EC1	1 000	10	50	50	50 ppb
EMICODE EC1 ^{PLUS}	750	10	50	50	50 ppb

	TVOC µg/m ³	TSVOC µg/m ³	Each carcinogen C1A,CA2 µg/m ³	Formalde- hyde µg/m ³	Acetalde- hyde µg/m ³	LCI	R value	Specials	Sum of non-LCI & non- identified µg/m ³
Belgian regulation	1000	100	1	100	200	Belgian list	1	Toluene 300 µg/m ³	-/-
French regulations class A+	1000	-/-	-/-	10	200	-/-	-/-	List of 8 VOCs, 4 CMR	-/-
French regulations class A	1500	-/-	-/-	60	300	-/-	-/-	List of 8 VOCs, 4 CMR	-/-
French regulations class B	2000	-/-	-/-	120	400	-/-	-/-	List of 8 VOCs, 4 CMR	-/-
French regulations class C	>2000	-/-	-/-	>120	>400	-/-	-/-	List of 8 VOCs, 4 CMR	-/-
German DIBt/AgBB regulation	1000	100	1	100	300	German AgBB list	1	-/-	100
EMICODE EC1	100	50	1	(after 3 days)	(after 3 days)	-/-	-/-	-/-	-/-
EMICODE EC1 ^{PLUS}	60	40	1	(after 3 days)	(after 3 days)	German AgBB list	1	-/-	40
Finnish M1, sealants	20	-/-	1	10	300	EU LCI list	-/-	Ammonia, odour	-/-
Finnish M1, adhesives	200 µg/m ² h	-/-	5 µg/m ² h	50 µg/m ² h	300	EU LCI list	-/-	Ammonia, odour	-/-

8. References

ETAG 033

Liquid applied bridge deck waterproofing kits

ISO 48-4

ISO 48-4:2018, Rubber, vulcanized or thermoplastic - Determination of hardness- Part 4: Indentation hardness by durometer method (Shore hardness)

EN ISO 717-1

EN ISO 717-1:2020 Acoustics - Rating of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation

EN 1062-3

EN 1062-3:2008-04, Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete - Part 3: Determination of liquid water permeability

EN 1062-6

EN 1062-6:2002-10, Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete - Part 6: Determination of carbon dioxide permeability

EN 1279-4

EN 1279-4:2002 Glass in building - Insulating glass units - Part 4: Methods of test for the physical attributes of edge seals

EN 1504-2

EN 1504-2:2004-12, Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 2: Surface protection systems for concrete

EN 1504-4

EN 1504-4:2004-11, Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity- Part 4: Structural bonding

EN 1504-5

EN 1504-5:2004-12, Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 5: Concrete injection

EN 1542

EN 1542:1999-07, Products and systems for the protection and repair of concrete structures - Test methods - Measurement of bond strength by pull-off

EN 1771

EN 1771:2004-11, Products and systems for the protection and repair of concrete structures - Test methods - Determination of injectability and splitting test

ISO 2811-1

ISO 2811-1:2016, Paints and varnishes - Determination of density - Part 1: Pycnometer method

EN ISO 3219

EN ISO 3219:1994-10, Plastics - Polymers/resins in the liquid state or as emulsions or dispersions - Determination of viscosity using a rotational viscometer with defined shear rate

ISO 3219-2

ISO 3219-2:2021, Rheology - Part 2: General principles of rotational and oscillatory rheometry

EN ISO 7783

EN ISO 7783:2019-02, Paints and varnishes - Determination of water-vapour transmission properties - Cup method

EN 12004

EN12004:2012, Adhesives for ceramic tiles

EN 12004-1

EN 12004-1:2017, Adhesives for ceramic tiles – Part 1: Requirements, assessment and verification of constancy of performance, classification and marking

EN 12004-2

EN 12004-2:2017, Adhesives for ceramic tiles - Part 2: Test methods

EN 13501-1

EN 13501-1:2018, Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

EN 13813

EN 13813:2002-10, Screed material and floor screeds - Screed materials - Properties and requirements

EN 13892-8

EN 13892:2003-02, Methods of test for screed materials - Part 8: Determination of bond strength

ISO 14025

DIN EN ISO 14025:2011-10, Environmental labels and declarations — Type III environmental declarations — Principles and procedures

EN 14891

EN 14891:2012-04, Liquid applied water impermeable products for use beneath ceramic tiling - Definitions, specifications and test methods

EN 15804

EN 15804:2019+A2, Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products

EN 16516

EN 16516:2017 Construction products - Assessment of release of dangerous substances - Determination of emissions into indoor air

EN ISO 17025

EN ISO 17025:2018-03 General requirements for the competence of testing and calibration laboratories

EN ISO 17178

EN ISO 17178:2020-06, Adhesives - Adhesives for bonding parquet to subfloor - Test methods and minimum requirements

EN 17333-2

EN 17333-2:2020+AC:2020, Characterisation of one component foam - Part 2: Expansion characteristics

EN 17333-3

EN 17333-3:2020, Characterisation of one component foam - Part 3: Application

EN 17333-4

EN 17333-4:2020, Characterisation of one component foam - Part 4: Mechanical strength

EN 17333-5

EN 17333-5:2020, Characterisation of one component foam - Part 5: Insulation

EN ISO 22636

EN ISO 22636:2020, Adhesives - Adhesives for floor coverings - Requirements for mechanical and electrical performance

EAD 030350-00-0402

EAD 030350-00-0402:2018-08, Liquid Applied Roof Waterproofing Kits

EAD 030352-00-0503

EAD 030352-00-0503:2019-01, Liquid applied watertight covering kits for wet room floors and/or walls

2000/532/EC

Commission decision dated 3 May 2000 replacing decision 94/3/EC on a waste directory in accordance with Article 1 a) of Council Directive 75/442/EEC on waste and Council decision 94/904/EC on a directory of hazardous waste in terms of Article 1, paragraph 4 of Directive 91/689/EEC on hazardous waste

Belgian Royal Decree C-2014/24239

Belgisch Staatsblad 8 MEI 2014, p. 60603. — Koninklijk besluit tot vaststelling van de drempelniveaus voor de emissies naar het binnenmilieu van bouwproducten voor bepaalde geogde gebouwen

Blue Angel

Environmental label organised by the federal government of Germany www.blauer-engel.de

CPR

CPR Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC

Decopaint Directive

Directive 2004/42/CE of the European Parliament and the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC

EMICODE

EMICODE, GEV – Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e. V. (pub.) www.emicode.de

GaBi 10 software & documentation

Data base for Life Cycle Engineering LBP, University of Stuttgart and Sphera, documentation of GaBi 10

data sets <http://documentation.gabi-software.com/>, 2020

German AgBB

Committee for Health-related Evaluation of Building Products: health-related evaluation of emissions of volatile organic compounds (VOC and SVOC) from building products; status: June 2012 www.umweltbundesamt.de/produkte/bauprodukte/agbb.htm

IBU 2021

Institut Bauen und Umwelt e.V.: General Instructions for the EPD programme of Institut Bauen und Umwelt e.V. EPD programme. Version 2.0. Berlin: Institut Bauen und Umwelt e.V., 2021 www.ibu-epd.com

ift-Guideline VE-08/4

ift-Guideline VE-08/4:2017, Beurteilungsgrundlage für geklebte Verglasungssysteme

Indoor Air Comfort

Product certification by Eurofins, Hamburg, Germany www.eurofins.com

PCR Part A

Product Category Rules for Building-Related Products and Services, Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project report, Version 1.1, Institut Bauen und Umwelt e.V., 2021-01

PCR Part B

Product Category Rules for Construction Products, Part B: Reaction resin products, Institut Bauen und Umwelt e.V., 2019-01

RAL-GZ 716

RAL-GZ 716:2019-04 part 2, Kunststoff-Fensterprofilsysteme - Gütesicherung

REACH

Directive (EG) No. 1907/2006 of the European Parliament and of the Council dated 18 December 2006 on the registration, evaluation, approval and restriction of chemical substances (REACH), for establishing a European Agency for chemical substances, for amending Directive 1999/45/EC and for annulment of Directive (EEC) No. 793/93 of the Council, Directive (EC) No. 1488/94 of the Commission, Guideline 76/769/EEC of the Council and Guidelines 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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Allgemeines bauaufsichtliches Prüfzeugnis

Prüfzeugnisnummer:

P - NDS04 - 1425

Gegenstand:

Montageschäume „fischer PU-P EVO 750 B2“, „fischer PU-P EVO 500 B2“, „fischer PUP EVO 750 B2“, „fischer PUP EVO 500 B2“, „fischer PU EVO 750 B2“ und „fischer PU EVO 500 B2“
gemäß der
Niedersächsischen Verwaltungsvorschrift Technische Baubestimmungen (VV TB) - Fassung März 2022 - Lfd. Nr. C 3.2
als normalentflammbarer Baustoff (Baustoffklasse B2)
nach DIN 4102-1: 1998-05

Antragsteller:

fischerwerke GmbH & Co. KG
Klaus-Fischer-Straße 1
72178 Waldachtal
DEUTSCHLAND

Ausstellungsdatum:

17.10.2022

Geltungsdauer von:

17.10.2022

Geltungsdauer bis:

31.05.2027

Aufgrund dieses allgemeinen bauaufsichtlichen Prüfzeugnisses ist der oben genannte Gegenstand im Sinne der Landesbauordnungen verwendbar.

Dieses allgemeine bauaufsichtliche Prüfzeugnis umfasst 4 Seiten.

Auftragsnummer: 225409



A Allgemeine Bestimmungen

Mit dem allgemeinen bauaufsichtlichen Prüfzeugnis ist die Verwendbarkeit der Bauprodukte im Sinne der Landesbauordnungen nachgewiesen.

Das allgemeine bauaufsichtliche Prüfzeugnis ersetzt nicht die für die Durchführung von Bauvorhaben gesetzlich vorgeschriebenen Genehmigungen, Zustimmungen und Bescheinigungen.

Das allgemeine bauaufsichtliche Prüfzeugnis wird unbeschadet der Rechte Dritter, insbesondere privater Schutzrechte, erteilt.

Hersteller und Vertreiber der Bauprodukte haben, unbeschadet weitergehender Regelungen, dem Verwender der Bauprodukte Kopien des allgemeinen bauaufsichtlichen Prüfzeugnisses zur Verfügung zu stellen und darauf hinzuweisen, dass das allgemeine bauaufsichtliche Prüfzeugnis an der Verwendungsstelle vorliegen muss. Auf Anforderung sind den beteiligten Behörden Kopien des allgemeinen bauaufsichtlichen Prüfzeugnisses zur Verfügung zu stellen.

Das allgemeine bauaufsichtliche Prüfzeugnis darf nur vollständig vervielfältigt werden. Eine auszugsweise Veröffentlichung bedarf der Zustimmung der Materialprüfanstalt für das Bauwesen und Produktionstechnik Hannover (MPA HANNOVER). Texte und Zeichnungen von Werbeschriften dürfen dem allgemeinen bauaufsichtlichen Prüfzeugnis nicht widersprechen. Übersetzungen des allgemeinen bauaufsichtlichen Prüfzeugnisses müssen den Hinweis „Von der Materialprüfanstalt für das Bauwesen und Produktionstechnik Hannover nicht geprüfte Übersetzung der deutschen Originalfassung“ enthalten.

Das allgemeine bauaufsichtliche Prüfzeugnis wird widerruflich erteilt. Die Bestimmungen des allgemeinen bauaufsichtlichen Prüfzeugnisses können nachträglich ergänzt und geändert werden, insbesondere, wenn technische Erkenntnisse dies erfordern.

B Besondere Bestimmungen

1 Gegenstand und Verwendungsbereich

1.1 Gegenstand

Montageschäume „fischer PU-P EVO 750 B2“, „fischer PU-P EVO 500 B2“, „fischer PUP EVO 750 B2“, „fischer PUP EVO 500 B2“, „fischer PU EVO 750 B2“ und „fischer PU EVO 500 B2“ als normalentflammbare Baustoffe (Baustoffklasse DIN 4102-B2) nach DIN 4102-1: 1998-05 gemäß VV TB - Fassung März 2022 - Lfd. Nr. C 3.2.

1.2 Verwendungsbereich

1.2.1 Die Bauprodukte sind zur Montage und technischen Isolierung von Bauteilen sowie zum Füllen von Fugen und Hohlräumen zu verwenden.

1.2.2 Dieses allgemeine bauaufsichtliche Prüfzeugnis gilt nur, soweit Anforderungen gemäß VV TB - Fassung März 2022 - Lfd. Nr. C 3.2 zu erfüllen sind. Der Nachweis weiterer bauaufsichtlicher Anforderungen ist nicht Gegenstand dieses allgemeinen bauaufsichtlichen Prüfzeugnisses. Gegebenenfalls sind hierfür weitere / andere Nachweise erforderlich.



3.2 Werkseigene Produktionskontrolle

In jedem Herstellwerk ist eine werkseigene Produktionskontrolle nach DIN 18200: 2018-09 einzurichten und durchzuführen, bei welcher durch eine vom Hersteller vorzunehmende kontinuierliche Überwachung der Produktion sichergestellt wird, dass die Bauprodukte den Bestimmungen des allgemeinen bauaufsichtlichen Prüfzeugnisses entsprechen.

Die Ergebnisse der werkseigenen Produktionskontrolle sind aufzuzeichnen und auszuwerten. Die Aufzeichnungen müssen mindestens folgende Angaben enthalten:

- Bezeichnung des Bauprodukts
- Art der Kontrolle
- Datum der Herstellung und der Kontrolle des Bauprodukts
- Ergebnis der Kontrollen und, soweit zutreffend, Vergleich mit den Anforderungen
- Unterschrift des für die werkseigene Produktionskontrolle Verantwortlichen.

Die Aufzeichnungen über die werkseigene Produktionskontrolle müssen mindestens fünf Jahre aufbewahrt und der für die Fremdüberwachung eingeschalteten Überwachungsstelle vorgelegt werden. Bei ungenügendem Kontrollergebnis sind vom Hersteller unverzüglich die erforderlichen Maßnahmen zur Abstellung des Mangels zu treffen und die betroffenen Produkte auszusondern. Im Rahmen der werkseigenen Produktionskontrolle ist sicherzustellen, dass Bauprodukte, die nicht den Anforderungen entsprechen, nicht mit dem Ü-Zeichen gekennzeichnet werden und Verwechslungen mit Übereinstimmenden ausgeschlossen sind. Nach Abstellung des Mangels ist die betreffende Kontrolle unverzüglich zu wiederholen.

4 Rechtsgrundlage

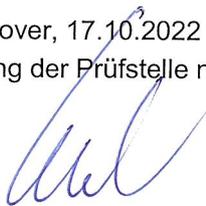
Dieses allgemeine bauaufsichtliche Prüfzeugnis wird aufgrund des § 19 der Niedersächsischen Bauordnung (NBauO) in der Fassung vom 03.04.2012 (Nds. GVBl. Nr. 5/2012, S. 46-73) zu-letzt geändert durch das Gesetz zur Änderung der Niedersächsischen Bauordnung vom 10.11.2020 (Nds. GVBl. S. 384) in Verbindung mit der Verwaltungsvorschrift Technische Bau-bestimmungen (VV TB) gemäß RdErl. d. MU vom 01.04.2022 (Nds. MBl. Nr. 14/2022, S. 508-553) erteilt.

5 Rechtsbehelfsbelehrung

Gegen dieses allgemeine bauaufsichtliche Prüfzeugnis kann innerhalb eines Monats nach Ausstellung Widerspruch erhoben werden. Der Widerspruch ist schriftlich oder zur Niederschrift bei der Materialprüfanstalt für das Bauwesen und Produktionstechnik Hannover einzulegen.

Hannover, 17.10.2022

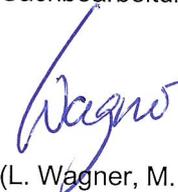
Leitung der Prüfstelle nach LBO



(Dipl.-Ing. S. Suhr)



Sachbearbeitung



(L. Wagner, M. Sc.)

2 Bestimmungen für die Bauprodukte

2.1 Eigenschaften und Zusammensetzung

- 2.1.1 Die 1-komponentigen Pistolenschäume müssen aus Polyurethan hergestellt werden. Die Rohdichte muss ca. 15 kg/m³ betragen.
- 2.1.2 Die Bauprodukte müssen im eingebauten Zustand die Anforderungen an normalentflammbare Baustoffe (Baustoffklasse DIN 4102-B2) nach DIN 4102-1: 1998-05 erfüllen.
- 2.1.3 Die Zusammensetzung der Bauprodukte muss den bei der Materialprüfanstalt für das Bauwesen und Produktionstechnik Hannover hinterlegten Angaben entsprechen.
- 2.1.4 Die für die Erteilung des allgemeinen bauaufsichtlichen Prüfzeugnisses verwendeten Nachweise des Brandverhaltens sind bei der MPA HANNOVER hinterlegt.

2.2 Herstellung und Kennzeichnung

2.2.1 Herstellung

Bei der Herstellung der Bauprodukte sind die Bestimmungen der Abschnitte 2.1.1 bis 2.1.3 einzuhalten.

2.2.2 Kennzeichnung

Die Bauprodukte müssen vom Hersteller mit dem Übereinstimmungszeichen (Ü-Zeichen) nach den Übereinstimmungszeichen-Verordnungen der Länder gekennzeichnet werden. Die Kennzeichnung darf nur erfolgen, wenn die Voraussetzungen nach Abschnitt 3 erfüllt sind.

Folgende Angaben müssen auf dem Bauprodukt, der Verpackung oder dem Beipackzettel enthalten sein:

- Produktname
- Name des Herstellers
- Übereinstimmungszeichen (Ü-Zeichen) mit
 - Herstellwerk
 - Prüfzeugnisnummer
- Baustoffklasse normalentflammbar (DIN 4102-B2)

3 Übereinstimmungsnachweis

3.1 Allgemeines

Die Bestätigung der Übereinstimmung der Bauprodukte mit den Bestimmungen des allgemeinen bauaufsichtlichen Prüfzeugnisses muss für jedes Herstellwerk mit einer Übereinstimmungserklärung des Herstellers auf der Grundlage einer Erstprüfung und einer werkseigenen Produktionskontrolle erfolgen.



Denzlingen, 17. Dezember 2025

Bestätigung fischer Polyurethanschäume

Sehr geehrte Damen und Herren,

hiermit bestätigen wir, dass die unten genannten Polyurethanschäume dem Anforderungskatalog des Qualitätssiegel Nachhaltiges Gebäude (QNG) entsprechen. Diese Produkte sind frei von halogenierten Treibmitteln und Formaldehyd, ebenfalls liegt der Gehalt an TCEP und Chlorparaffinen < 0,1 %. Alle genannten Produkte besitzen Emicode EC1 Plus.

Freundliche Grüße

fischerwerke GmbH & Co. KG

EIN UNTERNEHMEN DER UNTERNEHMENSGRUPPE FISCHER

Abt. Chemisches Labor

i. V. M. Vogel

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Deutschland
Registergericht Stuttgart HRA440255
Komplementär:
fischerinternational Beteiligungs GmbH,
Wiener Straße 95, 2514 Traiskirchen,
Österreich
Landesgericht Wiener Neustadt FN 319271 t

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Bankverbindung

Baden-Württembergische Bank
BLZ 600 501 01, Kto. 4 903 000
IBAN DE98 6005 0101 0004 9030 00
SWIFT SOLADEST600



Art. Nr.	Neue Bezeichnung	Bild
563227	Monomerarmer PU-Schaum PU-P EVO 750 B2	
543453	Flexibler Pistolenschaum PUP Flex 750 B2	
53084	Premium Pistolenschaum PUP Pro 825 B2	
503259	Premium Pistolenschaum PUP Pro 500 B2	
539197	Pistolenschaum Profi PUP S 750 B2	
40302	Pistolenschaum PUP S 750 B2	
539163	Pistolenschaum Profi PUP S 500 B2	
45300	Pistolenschaum schwer entflammbar PUP HF 750 B1	
513763	Brunnenschaum PUP BS 750 B2	
53080	Premium Schnellmontage- & Brunnenschaum PU Pro 750 B2	
50426	Premium Schnellmontage- & Brunnenschaum PU Pro 500 B2	
40301	Schnellmontageschaum Profi PU S 750 B2	
40300	Schnellmontageschaum PU S 500 B2	
506671	Perimeterklebeschaum PUP P 750 B2	
539164	WDVS Klebeschaum PUP WDVS 750	
53081	Schnellschaum Türzarge & Wanne PU 2K 400 B2	