

Sewatek SWT-100 fire acryl

Environmental Product Declaration

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025



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1. GENERAL INFORMATION

This Environmental Product Declaration (EPD) is developed in accordance with the European standard EN 15804 and ISO 14025. It contains the information on the impacts of the declared construction materials on the environment.

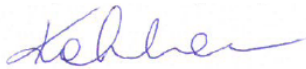
EPDs may not be comparable if they do not comply with the EN 15804 standard and if the core systems are not based on the same database.

Owner of the EPD	Sewatek Oy Sepäntie 4, 07230 Askola, Finland www.sewatek.com
EPD program operator	CERTBUD Sp. z o.o. ul. Mokotowska 46 lok. 8, 00-543 Warszawa e-mail: biuro@certyfikacja-certbud.pl www.certyfikacja-certbud.pl
Declared product(s)	Sewatek SWT-100 fire acryl
Declaration reference number	EPD Ref. No. 2025-0080-7
PCR	PCR in accordance with EN 15804:2012+A2:2019
Date of issue	17-12-2025
Date of publication	28-04-2026
Validity date	17-12 -2030
Declared unit	1 kg
Life cycle analysis (LCA)	A1-A3 modules
Service Life	Depending on application, up to 50 years
Reason for performing LCA	Bussines-to-bussines
Representativeness	European product, 2024



2. VERIFICATION

This Environmental Product Declaration (EPD) has been verified in accordance with ISO 14025 and is valid for 5 years from the date of issue if the underlying data have not changed significantly.

CEN EN 15804 standard serves as the main PCR document.
Independent verification corresponding to ISO 14025:2010 <input type="checkbox"/> Internal <input checked="" type="checkbox"/> External
Third party verifier:  Monika Kotkiewicz, CERTBUD Sp. z o.o.
External verification of EPD: Monika Kotkiewicz, CERTBUD Sp. z o.o. Input data verification, LCA: Damian Bulski, CEexpert Verification of LCA: Natalia Krzemińska, CERTBUD Sp. z o.o.



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3. ORGANIZATION DESCRIPTION

Sewatek Oy is a manufacturer and distributor of their own firestop products, focusing on improving fire safety in residential construction. They have been manufacturing fire protection products since 1989. They manufacture their own developed products in Askola, in Eastern Uusimaa.

Sewatek's values are customer orientation, reliability, responsibility, and renewal. They also take modern environmental aspects of residential construction into account in their product development by continuously seeking more environmentally friendly material solutions and paying increasing attention to supply chains.

Sewatek is known for its experienced customer service, fast deliveries, and innovative products, whose key features include ease of use, extensive approvals, and overall cost efficiency for our customers.



4. DESCRIPTION AND CLASSIFICATION OF PRODUCTS

This environmental declaration covers the following product:

Sewatek SWT-100 firestop sealant. Sewatek SWT-100 is a white, single-component, fire acrylic mastic. Package sizes 310 ml and 600 ml.

Sewatek SWT-100 is intended to use for sealing metal and composite pipes, cables and cable bundles that penetrate fire rated walls and floors.

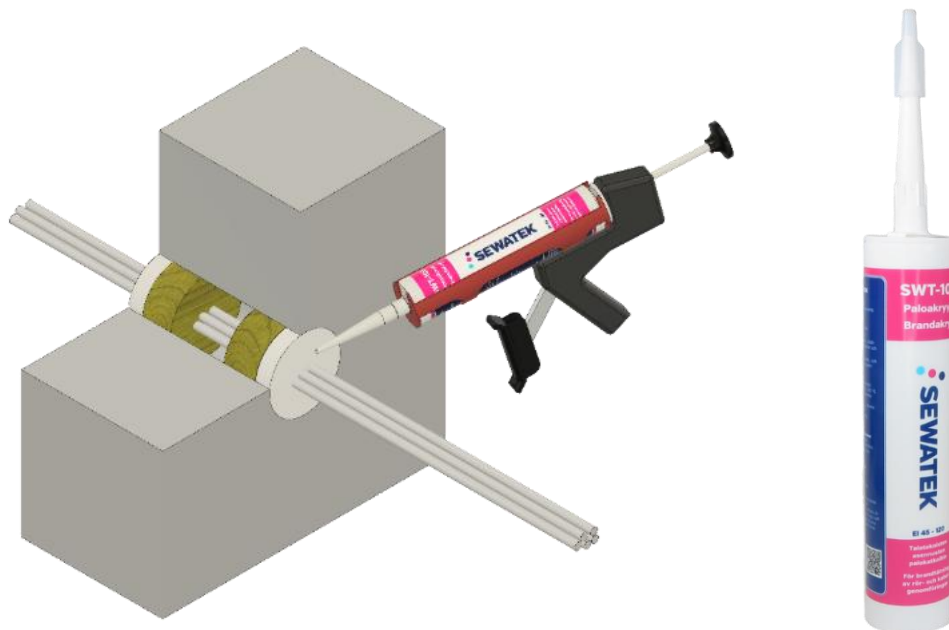


Figure 4.2: Application of Sewatek SWT-100 fire acryl



5. LIFE CYCLE ASSESSMENT (LCA) - RULES

5.1. DECLARED UNIT (DU)

The declaration refers to declared unit – 1 kg of Sewatek SWT-100 fire acryl.

5.2. ALLOCATION

The allocation rules used for this EPD are based on EN 15804+A2. The production of Sewatek SWT-100 fire acryl takes place in Europe.

Impacts from the global line production were inventoried and 0,36% were allocated to the production of firestop sealants in terms of annual production volume expressed in mass basis.

5.3. BIOGENIC CARBON CONTENT

The content of biogenic carbon in the product is determined quantitatively and results from the carbon dioxide removed from the atmosphere through the photosynthesis reaction. It is assumed that 50% of the dry mass of wood is carbon, 44% oxygen and hydrogen. Each kilogram of stored biogenic carbon is approximately 3.67 kg of CO₂ effectively removed from the atmosphere.

Table 5.1: Biogenic carbon content in product and packaging materials

Biogenic carbon content	Unit
CO ₂ equivalent	44/12
Biogenic carbon content in product	< 5%
Biogenic carbon content in packaging materials	< 5%

5.4. SYSTEM BOUNDARIES

The system limits for the environmental characteristics of Sewatek SWT-100 fire acryl are shown in figure 5.1. Data used in LCA calculation were declared by manufacturer and reflected the actual status of the year 2024.

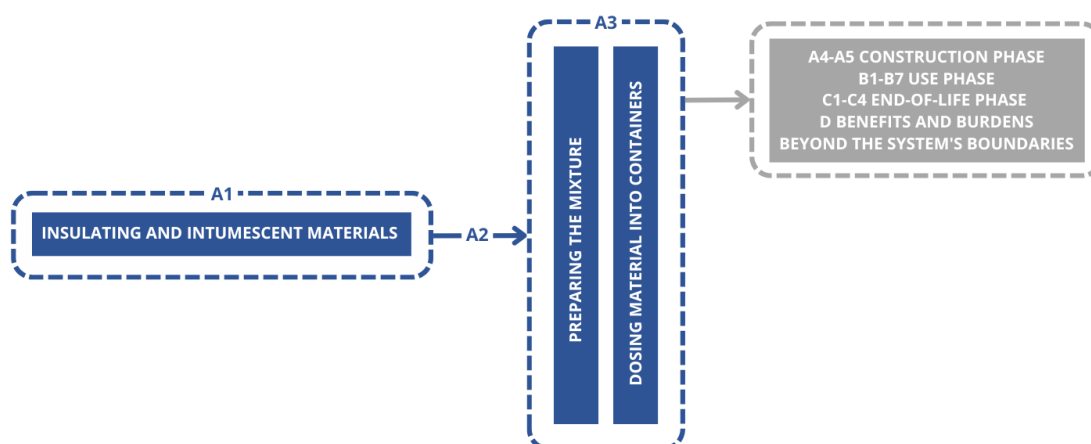
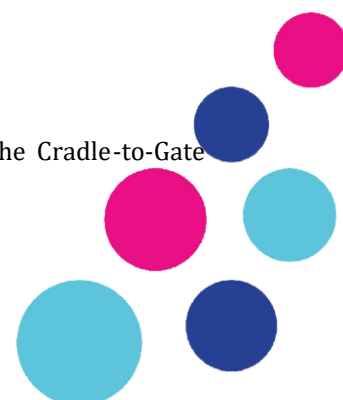


Figure 5.1: System boundaries

This Environmental Product Declaration includes a life cycle assessment (LCA) for the Cradle-to-Gate according to EN 15804+A2. Modules A4-A5, B1-B7, C1-C4, D are not declared.



5.4.1. A1 – RAW MATERIALS SUPPLY

This module takes into account the extraction and processing of all raw materials, as well as Energy consumption. The extraction and consumption of raw materials refers to specific mass shares in the production process per unit of declared product. Raw materials for the production of components of Sewatek SWT-100 fire acryl come from European suppliers.

5.4.2. A2 – TRANSPORT TO THE PRODUCTION SITE

Raw materials are transported to the production plant from European suppliers. Distances from the place of obtaining raw materials to the production plant are individual for each raw material. The means of transport were diversified depending on the method of delivery of raw materials. The adopted model includes road transport (average values) for each raw material. For calculation purposes European fuel averages are applied in module A2.

5.4.3. A3 – PRODUCTION

Module A3 covers all production-related process – including the Sewatek SWT-100 fire acryl components production, their packaging and internal transport.

A schematic of the production line for firestop sealants at Sewatek Oy is shown in Fig.5.2.

This module takes into account energy consumption and waste generated in the production plant, as well as losses generated in the production process.



Figure 5.2: Production proces



DATA COLLECTION PERIOD	The data regarding the production of products refer to period from 01.01.2024 to 31.12.2024
DATA QUALITY	The values determined to calculate the LCA originate from verified Sewatek Oy inventory data. The LCA analysis uses data prepared based on actual consumption at the production site. The details collected are no more than two years old.
CALCULATION RULES	The impacts of the representative Sewatek Oy products were aggregated using weighted average. The weighted average method was used according to the percentage of each product in Sewatek SWT-100 fire acryl based on the relations to whole production quantity. Impacts were calculated for Sewatek SWT-100 fire acryl and are shown in Table 6.3. The LCA analysis was conducted in accordance with the EN 15804+A2.
CUT-OFF CRITERIA	All-important parameters from collected production data, i.e. all materials used by recipe, electricity consumed, internal fuel consumption and thermal energy, direct production waste, and the results of all available emission measurements were included in the calculations. In accordance with EN 15804, machinery and equipment (capital assets) needed for and during production, as well as the transportation of production facility employees, were not included. The sum of the omitted total mass flows does not exceed 1% and excluded consumption of renewable and non-renewable primary energy is no more than 1% according to EN 15804+A2.
BACKGROUND DATA	The main source of general and auxiliary data is the Ecoinvent 3.11 database.



6. LIFE CYCLE ASSESSMENT (LCA) - RESULTS

Life cycle assessment (LCA) of this environmental declaration covers A1-A3 („cradle to gate”). Tabel 6.1. shows the LCA modules considered in calculating the environmental impact categories for the products covered by this declaration.

Table 6.1: Modules defined and not declared in system boundaries

Product stage			Construction process stage		Use stage							End of life stage				
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use stage	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse, recovery, recycling potential
X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND

X - modules defined

MND - modules not declared

Indicators describing environmental impact of product can be categorized as general environmental impacts, additional impacts and environmental aspects related to resources. The abbreviations and its explanations used to describe the environmental impact of Sewatek SWT-100 fire acryl are shown below (tab. 6.2).

The table 6.3 present the results of the LCA analysis for Sewatek SWT-100 fire acryl products.

Table 6.2: Abbreviations and its explanations used in LCA analysis

ENVIRONMENTAL IMPACT INDICATORS	
GWP-total	Global Warming Potential - total
GWP-fossil	Global Warming Potential - fossil
GWP-biogenic	Global Warming Potential - biogenic
GWP-luluc	Global Warming Potential - land use and land use change
ODP	Stratospheric ozone depletion potential
AP	Soil and water acidification potential
EP-freshwater	Eutrophication potential - freshwater
EP-marine	Eutrophication potential - seawater



EP-terrestrial	Eutrophication potential - terrestrial
POCP	Potential for photochemical ozone synthesis
ADP-minerals & metals*	Potential for depletion of abiotic resources - non-fossil resources
ADP-fossil*	Abiotic depletion potential – fossil fuels
WDP*	Water deprivation potential

ENVIRONMENTAL ASPECTS RELATED TO RESOURCE INDICATORS

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
PEN-RE	Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials
RE	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

ENVIRONMENTAL INFORMATION DESCRIBING WASTE CATEGORIES INDICATORS

HWD	Hazardous waste disposed
NHWD	Non-hazardous waste disposed
RWD	Radioactive waste disposed
CRU	Components for reuse
MFR	Materials for recycling
MER	Materials for energy recovery
EEE	Exported electrical energy
EET	Exported thermal energy

ADDITIONAL ENVIRONMENTAL IMPACTS INDICATORS

GWP-GHG	Global warming potential except emissions and uptake of biogenic carbon
PM	Particulate matter
IRP**	Potential human exposure efficiency relative to U235
ETP-fw*	Potential comparative toxic unit for ecosystems
HTP-c*	Potential comparative toxic unit for humans (cancer effects)
HTP-nc*	Potential comparative toxic unit for humans (non-cancer effects)
SQP*	Potential soil quality index

*The results should be used with caution because there is high uncertainty or limited experience with this indicators.

**Apply mainly the possible impact of the nuclear fuel cycle on human health resulting from low ionizing radiation.

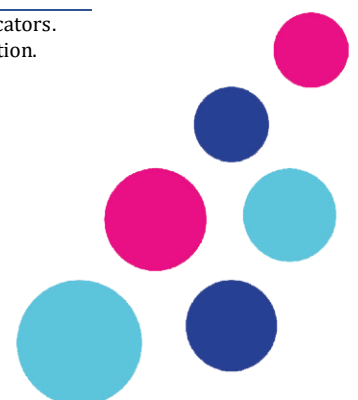
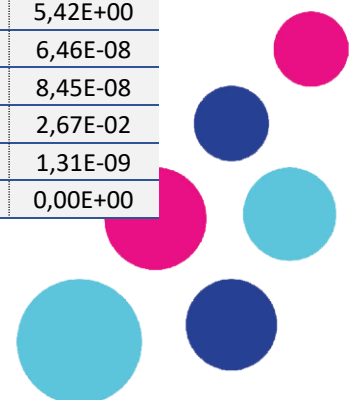


Table 6.3: LCA analysis results for Sewatek SWT-100 fire acryl

Results per 1 kg: Sewatek SWT-100 fire acryl					
ENVIRONMENTAL IMPACTS					
PARAMETER	UNIT	A1	A2	A3	A1-A3
GWP-total	eq. kg CO2	1,04E+00	4,91E-02	3,95E-02	1,12E+00
GWP-fossil	eq. kg CO2	1,04E+00	4,91E-02	3,51E-02	1,12E+00
GWP-biogenic	eq. kg CO2	-1,99E-02	2,47E-05	4,33E-03	-1,55E-02
GWP-luluc	eq. kg CO2	1,56E-02	1,57E-05	7,88E-06	1,56E-02
ODP	eq. kg CFC 11	3,88E-07	1,07E-09	4,53E-10	3,90E-07
AP	mol H+	6,43E-03	1,01E-04	1,53E-04	6,69E-03
EP-freshwater	eq. kg P	3,79E-05	3,61E-07	2,49E-06	4,07E-05
EP-marine	eq. kg N	1,18E-03	2,32E-05	2,12E-05	1,22E-03
EP-terrestrial	eq. mol N	1,15E-02	2,57E-04	2,04E-04	1,19E-02
POCP	eq. kg NMVOC	4,39E-03	1,61E-04	7,91E-05	4,63E-03
ADP-minerals & metals*	eq. kg Sb.	1,34E-05	1,75E-07	1,39E-07	1,37E-05
ADP-fossil*	MJ	1,72E+01	6,93E-01	3,79E-01	1,82E+01
WDP*	eq. m3	4,84E-01	3,59E-03	5,99E-03	4,94E-01
ENVIRONMENTAL ASPECTS RELATED TO RESOURCES					
PARAMETER	UNIT	A1	A2	A3	A1-A3
PERE	MJ	1,52E+00	1,26E-02	3,68E-02	1,57E+00
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	1,52E+00	1,26E-02	3,68E-02	1,57E+00
PEN-RE	MJ	1,72E+01	6,93E-01	3,79E-01	1,83E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	1,72E+01	6,93E-01	3,79E-01	1,83E+01
SM	kg	6,01E-02	7,33E-04	1,50E-03	6,23E-02
RSF	MJ	2,56E-02	2,06E-04	8,26E-04	2,67E-02
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m3	1,46E-02	8,28E-05	8,87E-05	1,48E-02
ENVIRONMENTAL INFORMATION DESCRIBING WASTE CATEGORIES					
PARAMETER	UNIT	A1	A2	A3	A1-A3
HWD	kg	3,14E-01	6,51E-04	2,09E-03	3,17E-01
NHWD	kg	9,28E-01	7,85E-03	5,79E-02	9,94E-01
RWD	kg	2,01E-05	2,45E-07	2,20E-07	2,06E-05
CRU	kg	1,49E-02	1,69E-04	2,75E-04	1,53E-02
MFR	kg	1,06E+00	4,91E-02	3,81E-02	1,15E+00
MER	kg	5,68E-02	6,52E-04	1,42E-03	5,89E-02
EEE	MJ	4,03E-02	7,35E-04	1,08E-04	4,11E-02
EET	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ADDITIONAL IMPACTS					
PARAMETER	UNIT	A1	A2	A3	A1-A3
GWP-GHG	eq. kg CO2	2,06E+01	1,00E-01	3,12E-01	2,10E+01
PM	Disease incidence	5,00E+00	3,62E-01	5,88E-02	5,42E+00
IRP**	eq. kBq U235	6,10E-08	3,16E-09	4,95E-10	6,46E-08
ETP-fw*	CTUe	8,36E-08	4,11E-10	5,26E-10	8,45E-08
HTP-c*	CTUh	2,61E-02	3,49E-04	2,92E-04	2,67E-02
HTP-nc*	CTUh	1,27E-09	7,81E-12	2,30E-11	1,31E-09
SQP*	dimensionless	0,00E+00	0,00E+00	0,00E+00	0,00E+00



7. REFERENCES

- EN 15804:2012+A2:2019 Sustainability of construction works -- Environmental product declarations -- Core rules for the product category of construction products
- ISO 14025:2006 Environmental labels and declarations -- Type III environmental declarations -- Principles and procedures
- ISO 14044:2006 Environmental management -- Life cycle assessment -- Requirements and guidelines
- EN 15942:2021 Sustainability of construction works -- Environmental product declarations -- Communication format business-to-business
- ISO 14067:2018 Greenhouse gases -- Carbon footprint of products -- Requirements and guidelines for quantification
- ISO 21930:2017 Sustainability in buildings and civil engineering works -- Core rules for environmental product declarations of construction products and services
- EN 16449:2014 Wood and wood-based products – Calculation of the biogenic carbon content of wood and conversion to carbon dioxide
- Ecoinvent 3.11 database





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CERTIFICATE No. 2025-0080-7

of TYPE III ENVIRONMENTAL DECLARATION

Product:

Sewatek SWT-100 fire acryl

Certificate owner:

Sewatek Oy
Sepäntie 4,
07230 Askola, Finland

confirms the correctness of the data included in the development of the Type III Environmental Declaration and accordance with the requirements of the standard:

EN 15804:2012+A2:2019

Sustainability of construction works --
Environmental product declarations --
Core rules for the product category of construction products

This certificate, published on 28/04/2026 and is valid for 5 years from issue date or until amendment of mentioned Environmental Declaration.



Director of the Certification
Department
CERTBUD Sp. z o.o.

K Pawłowski

Kamil PAWŁOWSKI

Warsaw, 28/04/2026 r.