

ENVIRONMENTAL PRODUCT DECLARATION

Waterproofing Line

In accordance with: ISO 14025:2006, EN
15804:2012+A2:2019/AC:2021

Products included in the EPD:

The EPD covers more than 10 products. Please refer to the product information section for the list of products.

An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com

EPD of multiple products based on worst-case results

EPD Owner
Diasen Srl

Programme
International EPD System
www.environdec.com

Programme operator
EPD International AB

Registration number
EPD-IES-0030967:001

Version date
2026-06-18

Validity date
2031-06-17



GENERAL INFORMATION

Programme information

Programme	International EPD System
Address	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website	www.environdec.com
E-mail	support@environdec.com

Product category rules

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)	
Product Category Rules (PCR)	2019:14 Construction products (EN 15804+A2) (version 2.0.1) 2.0.1
PCR review was conducted by	The Technical Committee of the International EPD System. See www.environdec.com for a list of members. Review chair: Rob Rouwette (chair), Noa Meron (co-chair). The review panel may be contacted via the Secretariat www.environdec.com/support .

Verification

Independent third-party verification of the declaration and data, according to ISO 14025:2006, via	☒ EPD verification through an individual EPD verification ☐ EPD verification through EPD Process Certification* ☐ EPD verification through a fully pre-verified tool
Third-party verifier	Certiquality Srl
Accredited by	Accredia
Accredited certification body address	Italy
Procedure for follow-up of data during EPD validity involves third party verifier	☒ Yes ☐ No
*EPD Process Certification involves an accredited certification body certifying and periodically auditing the EPD process and conducting external and independent verification of EPDs that are regularly published. More information can be found in the General Programme Instructions on www.environdec.com .	

Ownership and limitations on use of EPD

Limitations

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.

Ownership

The EPD Owner has the sole ownership, liability, and responsibility for the EPD.

INFORMATION ABOUT EPD OWNER

EPD Owner	Diasen Srl
Contact person name	Giulia Mengotti
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LCA Practitioner	Roberto Petrucci, roberto.petrucci@unipg.it

Description of the organisation of the EPD Owner

Diasen is an Italian company operating in the architecture and sustainable building materials sector, committed to developing biophilic solutions and systems that foster more balanced and mutually beneficial relationships between humans and nature, and between built environments and living cycles. Its solutions address needs for comfort and aesthetic quality—such as thermal and acoustic insulation, surface protection, and spatial enhancement—and are designed for public construction, private architecture, and design, with particular attention to how materials interact over time with environmental factors.

The company’s activities are guided by compliance with environmental regulations and by a structured approach aimed at identifying, monitoring, and reducing impacts. Since 2007, Diasen has adopted a certified Environmental Management System in accordance with ISO 14001:2015, alongside ISO 9001:2015 and ISO 45001:2018 standards.

Diasen is also a certified B Corp®, demonstrating a commitment verified by independent third parties that attest to its social and environmental responsibility. More than 40 products have undergone LEED®, WELL®, and BREEAM® mapping to support their integration into sustainable building protocols and advanced, high-performance architectural frameworks.

Operational practices include monitoring material flows to limit waste generation and increase recovery where technically feasible. Research and Development (R&D) focuses on integrating raw materials derived from industrial by-products and recoverable streams, prioritizing durability and long-term resource efficiency—key indicators of quality in relation to market outputs.

Product and solution development is oriented toward improving thermal performance and reducing building energy demand. At the same time, the company places strong emphasis on indoor environmental quality and on the long-term interaction between materials, people, and ecosystems, as these aspects are integral to its mission: creating authentic spaces and environments that support human well-being, combining both functional and experiential value.



PRODUCT INFORMATION

Product name	Acriflex Rapido
Product identification	- EN 14891: Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives (e.g., for balconies, terraces, and wet areas).
Product description	High-performance, single-component liquid waterproofing membrane formulated with advanced elastomeric resins. Engineered for maximum adaptability, it can be applied at +1 °C and in high-humidity conditions, resisting rain and water stagnation within 2–4 hours. This ready-to-use continuous barrier is ideal for roofs, terraces, and damp substrates, and is certified for asbestos encapsulation. Compliant with EOTA TR 003 and EN 14891 standards, it is a VOC-free solution (Dir. 2004/42/EC) ensuring maximum environmental health.
Technical purpose of product	The products belonging to the Waterproofing line consist of liquid-applied membranes, multi-component hybrid coatings, and water-based bituminous compounds. They are intended for both interior and exterior applications in residential, public, commercial, and sports buildings, as well as for underground structures and historical restoration. Their primary technical functions include providing continuous watertight barriers against rainwater, moisture, and extreme hydrostatic pressure, while offering high elasticity, crack-bridging capacity, and rapid resistance to early washout. Additionally, specific formulations within the line serve specialized purposes such as urban heat island mitigation through ultra-high solar reflectance, and environmental remediation via certified asbestos encapsulation. They are designed for application on a wide variety of substrates—including concrete, tiles, existing bituminous membranes, wood, and masonry—to significantly enhance the envelope's durability and long-term protection against weathering.
Manufacturing or service provision description	The manufacturing process begins with the receipt and storage of raw materials from suppliers. Depending on their characteristics, materials arrive in plastic or metal buckets, kraft paper and plastic bags, or unpackaged in bulk; the latter are stored directly in dedicated silos. These materials are fed into the liquid production mixer either automatically or manually. Packaged ingredients stored in the warehouse are subsequently transported to the mixing station via electric forklifts. For cork-based products, the raw cork undergoes a preliminary milling stage before being transferred to the final production phase. Production is a batch (discontinuous) process where all components are mechanically blended. The finished product is then packaged in buckets, palletized on wooden pallets, secured with a protective polymer hooding film, and stored in the finished goods warehouse. Quality control is strictly performed both during production and prior to shipment. This manufacturing process requires water and operates virtually as a closed-loop system, generating no material scraps. Water from the municipal aqueduct is used exclusively to clean the mixer between different production cycles and is subsequently discharged as industrial wastewater.
Material properties	Volumetric mass density: 1188 kg/m ³
Manufacturing site	DIASEN SRL ZONA INDUSTRIALE BERBENTINA 5 60041 SASSOFERRATO Italy
UN CPC code	35110. Paints and varnishes and related products
Geographical scope(s)	Global

PRODUCT IMAGES





PRODUCT INFORMATION

Product name	Acriflex X-Pro
Product identification	- EN 14891: Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives (e.g., for balconies, terraces, and wet areas).
Product description	Liquid waterproofing membrane formulated with elastomeric binders and high-modulus elastic fibres. Designed as a seamless, walkable shield, it resists UV rays and water stagnation while maintaining high flexibility even at low temperatures. Ideal for exposed applications, it harmonizes structural protection with aesthetic durability. Certified according to EOTA TR 003 and EN 14891, it is a VOC-free solution (Dir. 2004/42/EC) ensuring superior indoor and outdoor air quality.
Technical purpose of product	The products belonging to the Waterproofing line consist of liquid-applied membranes, multi-component hybrid coatings, and water-based bituminous compounds. They are intended for both interior and exterior applications in residential, public, commercial, and sports buildings, as well as for underground structures and historical restoration. Their primary technical functions include providing continuous watertight barriers against rainwater, moisture, and extreme hydrostatic pressure, while offering high elasticity, crack-bridging capacity, and rapid resistance to early washout. Additionally, specific formulations within the line serve specialized purposes such as urban heat island mitigation through ultra-high solar reflectance, and environmental remediation via certified asbestos encapsulation. They are designed for application on a wide variety of substrates—including concrete, tiles, existing bituminous membranes, wood, and masonry—to significantly enhance the envelope's durability and long-term protection against weathering.
Manufacturing or service provision description	The manufacturing process begins with the receipt and storage of raw materials from suppliers. Depending on their characteristics, materials arrive in plastic or metal buckets, kraft paper and plastic bags, or unpackaged in bulk; the latter are stored directly in dedicated silos. These materials are fed into the liquid production mixer either automatically or manually. Packaged ingredients stored in the warehouse are subsequently transported to the mixing station via electric forklifts. For cork-based products, the raw cork undergoes a preliminary milling stage before being transferred to the final production phase. Production is a batch (discontinuous) process where all components are mechanically blended. The finished product is then packaged in buckets, palletized on wooden pallets, secured with a protective polymer hooding film, and stored in the finished goods warehouse. Quality control is strictly performed both during production and prior to shipment. This manufacturing process requires water and operates virtually as a closed-loop system, generating no material scraps. Water from the municipal aqueduct is used exclusively to clean the mixer between different production cycles and is subsequently discharged as industrial wastewater.
Material properties	Volumetric mass density: 1432 kg/m ³
Manufacturing site	DIASEN SRL ZONA INDUSTRIALE BERBENTINA 5 60041 SASSOFERRATO Italy
UN CPC code	35110. Paints and varnishes and related products
Geographical scope(s)	Global

PRODUCT IMAGES





PRODUCT INFORMATION

Product name	Acriflex Fybro (A+B)
Product identification	- EN 14891: Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives (e.g., for balconies, terraces, and wet areas).
Product description	Two-component, fibre-reinforced waterproofing shield formulated with acrylic binders and high-strength cements. The elastic matrix ensures exceptional crack-bridging capacity (3.2 mm) and an elongation of 149% without the need for reinforcement mesh. Engineered to withstand extreme hydraulic pressure (9.5 bar), freeze-thaw cycles, and UV exposure, it is the ideal interface for restoring bituminous membranes and water-retaining structures. A VOC-free solution (Dir. 2004/42/EC) for sustainable building protection.
Technical purpose of product	The products belonging to the Waterproofing line consist of liquid-applied membranes, multi-component hybrid coatings, and water-based bituminous compounds. They are intended for both interior and exterior applications in residential, public, commercial, and sports buildings, as well as for underground structures and historical restoration. Their primary technical functions include providing continuous watertight barriers against rainwater, moisture, and extreme hydrostatic pressure, while offering high elasticity, crack-bridging capacity, and rapid resistance to early washout. Additionally, specific formulations within the line serve specialized purposes such as urban heat island mitigation through ultra-high solar reflectance, and environmental remediation via certified asbestos encapsulation. They are designed for application on a wide variety of substrates—including concrete, tiles, existing bituminous membranes, wood, and masonry—to significantly enhance the envelope's durability and long-term protection against weathering.
Manufacturing or service provision description	The manufacturing process begins with the receipt and storage of raw materials from suppliers. Depending on their characteristics, materials arrive in plastic or metal buckets, kraft paper and plastic bags, or unpackaged in bulk; the latter are stored directly in dedicated silos. These materials are fed into the liquid production mixer either automatically or manually. Packaged ingredients stored in the warehouse are subsequently transported to the mixing station via electric forklifts. For cork-based products, the raw cork undergoes a preliminary milling stage before being transferred to the final production phase. Production is a batch (discontinuous) process where all components are mechanically blended. The finished product is then packaged in buckets, palletized on wooden pallets, secured with a protective polymer hooding film, and stored in the finished goods warehouse. Quality control is strictly performed both during production and prior to shipment. This manufacturing process requires water and operates virtually as a closed-loop system, generating no material scraps. Water from the municipal aqueduct is used exclusively to clean the mixer between different production cycles and is subsequently discharged as industrial wastewater.
Material properties	Volumetric mass density: 1725 kg/m ³
Manufacturing site	DIASEN SRL ZONA INDUSTRIALE BERBENTINA 5 60041 SASSOFERRATO Italy
UN CPC code	35110. Paints and varnishes and related products
Geographical scope(s)	Global

PRODUCT IMAGES





PRODUCT INFORMATION

Product name	Acriflex Pro
Product identification	- EN 14891: Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives (e.g., for balconies, terraces, and wet areas).
Product description	Water-based, single-component liquid waterproofing formulated with latest-generation elastomeric resins and nanotechnology fillers. This ready-to-use solution ensures a continuous watertight seal on flat roofs, pitched roofs, and wet areas, maintaining high flexibility at low temperatures. Certified for asbestos encapsulation (D.M. 20/08/1999 and UNI 10686), it harmonizes environmental safety with high resistance to water stagnation and weathering. An exposed finish available in various colours, combining structural durability with VOC-free compliance (Dir. 2004/42/EC).
Technical purpose of product	The products belonging to the Waterproofing line consist of liquid-applied membranes, multi-component hybrid coatings, and water-based bituminous compounds. They are intended for both interior and exterior applications in residential, public, commercial, and sports buildings, as well as for underground structures and historical restoration. Their primary technical functions include providing continuous watertight barriers against rainwater, moisture, and extreme hydrostatic pressure, while offering high elasticity, crack-bridging capacity, and rapid resistance to early washout. Additionally, specific formulations within the line serve specialized purposes such as urban heat island mitigation through ultra-high solar reflectance, and environmental remediation via certified asbestos encapsulation. They are designed for application on a wide variety of substrates—including concrete, tiles, existing bituminous membranes, wood, and masonry—to significantly enhance the envelope's durability and long-term protection against weathering.
Manufacturing or service provision description	The manufacturing process begins with the receipt and storage of raw materials from suppliers. Depending on their characteristics, materials arrive in plastic or metal buckets, kraft paper and plastic bags, or unpackaged in bulk; the latter are stored directly in dedicated silos. These materials are fed into the liquid production mixer either automatically or manually. Packaged ingredients stored in the warehouse are subsequently transported to the mixing station via electric forklifts. For cork-based products, the raw cork undergoes a preliminary milling stage before being transferred to the final production phase. Production is a batch (discontinuous) process where all components are mechanically blended. The finished product is then packaged in buckets, palletized on wooden pallets, secured with a protective polymer hooding film, and stored in the finished goods warehouse. Quality control is strictly performed both during production and prior to shipment. This manufacturing process requires water and operates virtually as a closed-loop system, generating no material scraps. Water from the municipal aqueduct is used exclusively to clean the mixer between different production cycles and is subsequently discharged as industrial wastewater.
Material properties	Volumetric mass density: 1541 kg/m ³
Manufacturing site	DIASEN SRL ZONA INDUSTRIALE BERBENTINA 5 60041 SASSOFERRATO Italy
UN CPC code	35110. Paints and varnishes and related products
Geographical scope(s)	Global

PRODUCT IMAGES





PRODUCT INFORMATION

Product name	Ultrabit
Product identification	- EN 14891: Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives (e.g., for balconies, terraces, and wet areas).
Product description	Ready-to-use, water-based single-component bituminous paste formulated with recycled rubber to combine technical performance with environmental sustainability. This high-build waterproofing agent is designed for levelling and protecting external surfaces, allowing for single-layer applications up to 3 mm, significantly reducing installation time. Engineered for critical weather conditions (+5 °C and 98% RH), it offers immediate washout resistance (30 minutes) and high structural movement absorption.
Technical purpose of product	The products belonging to the Waterproofing line consist of liquid-applied membranes, multi-component hybrid coatings, and water-based bituminous compounds. They are intended for both interior and exterior applications in residential, public, commercial, and sports buildings, as well as for underground structures and historical restoration. Their primary technical functions include providing continuous watertight barriers against rainwater, moisture, and extreme hydrostatic pressure, while offering high elasticity, crack-bridging capacity, and rapid resistance to early washout. Additionally, specific formulations within the line serve specialized purposes such as urban heat island mitigation through ultra-high solar reflectance, and environmental remediation via certified asbestos encapsulation. They are designed for application on a wide variety of substrates—including concrete, tiles, existing bituminous membranes, wood, and masonry—to significantly enhance the envelope's durability and long-term protection against weathering.
Manufacturing or service provision description	The manufacturing process begins with the receipt and storage of raw materials from suppliers. Depending on their characteristics, materials arrive in plastic or metal buckets, kraft paper and plastic bags, or unpackaged in bulk; the latter are stored directly in dedicated silos. These materials are fed into the liquid production mixer either automatically or manually. Packaged ingredients stored in the warehouse are subsequently transported to the mixing station via electric forklifts. For cork-based products, the raw cork undergoes a preliminary milling stage before being transferred to the final production phase. Production is a batch (discontinuous) process where all components are mechanically blended. The finished product is then packaged in buckets, palletized on wooden pallets, secured with a protective polymer hooding film, and stored in the finished goods warehouse. Quality control is strictly performed both during production and prior to shipment. This manufacturing process requires water and operates virtually as a closed-loop system, generating no material scraps. Water from the municipal aqueduct is used exclusively to clean the mixer between different production cycles and is subsequently discharged as industrial wastewater.
Material properties	Volumetric mass density: 1007 kg/m ³
Manufacturing site	DIASEN SRL ZONA INDUSTRIALE BERBENTINA 5 60041 SASSOFERRATO Italy
UN CPC code	35110. Paints and varnishes and related products
Geographical scope(s)	Global

PRODUCT IMAGES





PRODUCT INFORMATION

Product name	Oriplast Reflex
Product identification	- EN 14891: Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives (e.g., for balconies, terraces, and wet areas).
Product description	High-performance waterproofing membrane formulated with nanotechnology fillers for high solar reflectance (SRI = 102). Designed as an "active thermal skin," it reflects over 90% of solar radiation, reducing surface temperatures by up to 48 °C and drastically improving indoor comfort. This elastic matrix (327% elongation) optimizes photovoltaic panel efficiency and ensures exceptional hydraulic tightness (7 atm). A fire-safe solution (Class B-s2, d0) that harmonizes structural protection with urban heat island mitigation. VOC-free (Dir. 2004/42/EC).
Technical purpose of product	The products belonging to the Waterproofing line consist of liquid-applied membranes, multi-component hybrid coatings, and water-based bituminous compounds. They are intended for both interior and exterior applications in residential, public, commercial, and sports buildings, as well as for underground structures and historical restoration. Their primary technical functions include providing continuous watertight barriers against rainwater, moisture, and extreme hydrostatic pressure, while offering high elasticity, crack-bridging capacity, and rapid resistance to early washout. Additionally, specific formulations within the line serve specialized purposes such as urban heat island mitigation through ultra-high solar reflectance, and environmental remediation via certified asbestos encapsulation. They are designed for application on a wide variety of substrates—including concrete, tiles, existing bituminous membranes, wood, and masonry—to significantly enhance the envelope's durability and long-term protection against weathering.
Manufacturing or service provision description	The manufacturing process begins with the receipt and storage of raw materials from suppliers. Depending on their characteristics, materials arrive in plastic or metal buckets, kraft paper and plastic bags, or unpackaged in bulk; the latter are stored directly in dedicated silos. These materials are fed into the liquid production mixer either automatically or manually. Packaged ingredients stored in the warehouse are subsequently transported to the mixing station via electric forklifts. For cork-based products, the raw cork undergoes a preliminary milling stage before being transferred to the final production phase. Production is a batch (discontinuous) process where all components are mechanically blended. The finished product is then packaged in buckets, palletized on wooden pallets, secured with a protective polymer hooding film, and stored in the finished goods warehouse. Quality control is strictly performed both during production and prior to shipment. This manufacturing process requires water and operates virtually as a closed-loop system, generating no material scraps. Water from the municipal aqueduct is used exclusively to clean the mixer between different production cycles and is subsequently discharged as industrial wastewater.
Material properties	Volumetric mass density: 1468 kg/m ³
Manufacturing site	DIASEN SRL ZONA INDUSTRIALE BERBENTINA 5 60041 SASSOFERRATO Italy
UN CPC code	35110. Paints and varnishes and related products
Geographical scope(s)	Global

PRODUCT IMAGES





PRODUCT INFORMATION

Product name	Ultragum
Product identification	- EN 14891: Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives (e.g., for balconies, terraces, and wet areas).
Product description	High-resilience, water-based single-component bituminous membrane for critical climates. It ensures exceptional resistance to early washout even at low temperatures (+5 °C) and extreme humidity (98%). The elastomeric matrix combines high elongation (336%) with certified thermal stability (100 days at 80 °C), ensuring maximum envelope durability against premature aging. Featuring superior substrate adhesion and fire safety (Class B-ROOF t4), it harmonizes winter construction efficiency with sustainable structural protection.
Technical purpose of product	The products belonging to the Waterproofing line consist of liquid-applied membranes, multi-component hybrid coatings, and water-based bituminous compounds. They are intended for both interior and exterior applications in residential, public, commercial, and sports buildings, as well as for underground structures and historical restoration. Their primary technical functions include providing continuous watertight barriers against rainwater, moisture, and extreme hydrostatic pressure, while offering high elasticity, crack-bridging capacity, and rapid resistance to early washout. Additionally, specific formulations within the line serve specialized purposes such as urban heat island mitigation through ultra-high solar reflectance, and environmental remediation via certified asbestos encapsulation. They are designed for application on a wide variety of substrates—including concrete, tiles, existing bituminous membranes, wood, and masonry—to significantly enhance the envelope's durability and long-term protection against weathering.
Manufacturing or service provision description	The manufacturing process begins with the receipt and storage of raw materials from suppliers. Depending on their characteristics, materials arrive in plastic or metal buckets, kraft paper and plastic bags, or unpackaged in bulk; the latter are stored directly in dedicated silos. These materials are fed into the liquid production mixer either automatically or manually. Packaged ingredients stored in the warehouse are subsequently transported to the mixing station via electric forklifts. For cork-based products, the raw cork undergoes a preliminary milling stage before being transferred to the final production phase. Production is a batch (discontinuous) process where all components are mechanically blended. The finished product is then packaged in buckets, palletized on wooden pallets, secured with a protective polymer hooding film, and stored in the finished goods warehouse. Quality control is strictly performed both during production and prior to shipment. This manufacturing process requires water and operates virtually as a closed-loop system, generating no material scraps. Water from the municipal aqueduct is used exclusively to clean the mixer between different production cycles and is subsequently discharged as industrial wastewater.
Material properties	Volumetric mass density: 1637 kg/m ³
Manufacturing site	DIASEN SRL ZONA INDUSTRIALE BERBENTINA 5 60041 SASSOFERRATO Italy
UN CPC code	35110. Paints and varnishes and related products
Geographical scope(s)	Global

PRODUCT IMAGES





PRODUCT INFORMATION

Product name	Watstop
Product identification	- EN 14891: Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives (e.g., for balconies, terraces, and wet areas).
Product description	Three-component hybrid technology waterproofing system formulated with epoxy resins and special osmotic cements for structures in extreme conditions. It ensures exceptional hydraulic tightness up to 9.5 atm, acting effectively in both positive and negative pressure (UNI EN 12390–8). Engineered as a molecular moisture barrier, it provides a high-resistance interface for underground walls and damp substrates, ensuring structural integrity where traditional systems fail.
Technical purpose of product	The products belonging to the Waterproofing line consist of liquid-applied membranes, multi-component hybrid coatings, and water-based bituminous compounds. They are intended for both interior and exterior applications in residential, public, commercial, and sports buildings, as well as for underground structures and historical restoration. Their primary technical functions include providing continuous watertight barriers against rainwater, moisture, and extreme hydrostatic pressure, while offering high elasticity, crack-bridging capacity, and rapid resistance to early washout. Additionally, specific formulations within the line serve specialized purposes such as urban heat island mitigation through ultra-high solar reflectance, and environmental remediation via certified asbestos encapsulation. They are designed for application on a wide variety of substrates—including concrete, tiles, existing bituminous membranes, wood, and masonry—to significantly enhance the envelope's durability and long-term protection against weathering.
Manufacturing or service provision description	The manufacturing process begins with the receipt and storage of raw materials from suppliers. Depending on their characteristics, materials arrive in plastic or metal buckets, kraft paper and plastic bags, or unpackaged in bulk; the latter are stored directly in dedicated silos. These materials are fed into the liquid production mixer either automatically or manually. Packaged ingredients stored in the warehouse are subsequently transported to the mixing station via electric forklifts. For cork-based products, the raw cork undergoes a preliminary milling stage before being transferred to the final production phase. Production is a batch (discontinuous) process where all components are mechanically blended. The finished product is then packaged in buckets, palletized on wooden pallets, secured with a protective polymer hooding film, and stored in the finished goods warehouse. Quality control is strictly performed both during production and prior to shipment. This manufacturing process requires water and operates virtually as a closed-loop system, generating no material scraps. Water from the municipal aqueduct is used exclusively to clean the mixer between different production cycles and is subsequently discharged as industrial wastewater.
Material properties	Volumetric mass density: 1623 kg/m ³
Manufacturing site	DIASEN SRL ZONA INDUSTRIALE BERBENTINA 5 60041 SASSOFERRATO Italy
UN CPC code	35110. Paints and varnishes and related products
Geographical scope(s)	Global

PRODUCT IMAGES





PRODUCT INFORMATION

Product name	Revela Zero
Product identification	- EN 14891: Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives (e.g., for balconies, terraces, and wet areas).
Product description	Clear, deep-penetrating siloxane coating designed to protect the breathing nature of stone, brick, and concrete. It creates an invisible hydrophobic barrier that repels rainwater while allowing interior vapor to escape. By preventing frost damage and moisture ingress, it preserves the natural soul of the masonry without altering its visual identity.
Technical purpose of product	The products belonging to the Waterproofing line consist of liquid-applied membranes, multi-component hybrid coatings, and water-based bituminous compounds. They are intended for both interior and exterior applications in residential, public, commercial, and sports buildings, as well as for underground structures and historical restoration. Their primary technical functions include providing continuous watertight barriers against rainwater, moisture, and extreme hydrostatic pressure, while offering high elasticity, crack-bridging capacity, and rapid resistance to early washout. Additionally, specific formulations within the line serve specialized purposes such as urban heat island mitigation through ultra-high solar reflectance, and environmental remediation via certified asbestos encapsulation. They are designed for application on a wide variety of substrates—including concrete, tiles, existing bituminous membranes, wood, and masonry—to significantly enhance the envelope's durability and long-term protection against weathering.
Manufacturing or service provision description	The manufacturing process begins with the receipt and storage of raw materials from suppliers. Depending on their characteristics, materials arrive in plastic or metal buckets, kraft paper and plastic bags, or unpackaged in bulk; the latter are stored directly in dedicated silos. These materials are fed into the liquid production mixer either automatically or manually. Packaged ingredients stored in the warehouse are subsequently transported to the mixing station via electric forklifts. For cork-based products, the raw cork undergoes a preliminary milling stage before being transferred to the final production phase. Production is a batch (discontinuous) process where all components are mechanically blended. The finished product is then packaged in buckets, palletized on wooden pallets, secured with a protective polymer hooding film, and stored in the finished goods warehouse. Quality control is strictly performed both during production and prior to shipment. This manufacturing process requires water and operates virtually as a closed-loop system, generating no material scraps. Water from the municipal aqueduct is used exclusively to clean the mixer between different production cycles and is subsequently discharged as industrial wastewater.
Material properties	Volumetric mass density: 1401 kg/m ³
Manufacturing site	DIASEN SRL ZONA INDUSTRIALE BERBENTINA 5 60041 SASSOFERRATO Italy
UN CPC code	35110. Paints and varnishes and related products
Geographical scope(s)	Global

PRODUCT IMAGES





PRODUCT INFORMATION

Product name	Acriflex Reflex
Product identification	- EN 14891: Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives (e.g., for balconies, terraces, and wet areas).
Product description	High-performance waterproofing membrane formulated with nanotechnology fillers for high solar reflectance (SRI = 102). Designed as an "active thermal skin," it reflects over 90% of solar radiation, reducing surface temperatures by up to 48 °C and drastically improving indoor comfort. This elastic matrix (327% elongation) optimizes photovoltaic panel efficiency and ensures exceptional hydraulic tightness (7 atm). A fire-safe solution (Class B-s2, d0) that harmonizes structural protection with urban heat island mitigation. VOC-free (Dir. 2004/42/EC).
Technical purpose of product	The products belonging to the Waterproofing line consist of liquid-applied membranes, multi-component hybrid coatings, and water-based bituminous compounds. They are intended for both interior and exterior applications in residential, public, commercial, and sports buildings, as well as for underground structures and historical restoration. Their primary technical functions include providing continuous watertight barriers against rainwater, moisture, and extreme hydrostatic pressure, while offering high elasticity, crack-bridging capacity, and rapid resistance to early washout. Additionally, specific formulations within the line serve specialized purposes such as urban heat island mitigation through ultra-high solar reflectance, and environmental remediation via certified asbestos encapsulation. They are designed for application on a wide variety of substrates—including concrete, tiles, existing bituminous membranes, wood, and masonry—to significantly enhance the envelope's durability and long-term protection against weathering.
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Material properties	Volumetric mass density: 1468 kg/m ³
Manufacturing site	DIASEN SRL ZONA INDUSTRIALE BERBENTINA 5 60041 SASSOFERRATO Italy
UN CPC code	35110. Paints and varnishes and related products
Geographical scope(s)	Global

PRODUCT IMAGES





PRODUCT INFORMATION

Product name	L'Antipioggia Terrazzi
Product identification	- EN 14891: Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives (e.g., for balconies, terraces, and wet areas).
Product description	High-performance, water-based transparent liquid waterproofing, ideal as a non-invasive solution for existing paved surfaces. It eliminates infiltrations without demolition, preserving the original aesthetics of the substrate. It ensures continuous hydrophobic protection and excellent structural durability, harmonizing architectural restoration efficiency with maximum chemical-physical resistance and environmental health.
Technical purpose of product	The products belonging to the Waterproofing line consist of liquid-applied membranes, multi-component hybrid coatings, and water-based bituminous compounds. They are intended for both interior and exterior applications in residential, public, commercial, and sports buildings, as well as for underground structures and historical restoration. Their primary technical functions include providing continuous watertight barriers against rainwater, moisture, and extreme hydrostatic pressure, while offering high elasticity, crack-bridging capacity, and rapid resistance to early washout. Additionally, specific formulations within the line serve specialized purposes such as urban heat island mitigation through ultra-high solar reflectance, and environmental remediation via certified asbestos encapsulation. They are designed for application on a wide variety of substrates—including concrete, tiles, existing bituminous membranes, wood, and masonry—to significantly enhance the envelope's durability and long-term protection against weathering.
Manufacturing or service provision description	The manufacturing process begins with the receipt and storage of raw materials from suppliers. Depending on their characteristics, materials arrive in plastic or metal buckets, kraft paper and plastic bags, or unpackaged in bulk; the latter are stored directly in dedicated silos. These materials are fed into the liquid production mixer either automatically or manually. Packaged ingredients stored in the warehouse are subsequently transported to the mixing station via electric forklifts. For cork-based products, the raw cork undergoes a preliminary milling stage before being transferred to the final production phase. Production is a batch (discontinuous) process where all components are mechanically blended. The finished product is then packaged in buckets, palletized on wooden pallets, secured with a protective polymer hooding film, and stored in the finished goods warehouse. Quality control is strictly performed both during production and prior to shipment. This manufacturing process requires water and operates virtually as a closed-loop system, generating no material scraps. Water from the municipal aqueduct is used exclusively to clean the mixer between different production cycles and is subsequently discharged as industrial wastewater.
Material properties	Volumetric mass density: 955 kg/m ³
Manufacturing site	DIASEN SRL ZONA INDUSTRIALE BERBENTINA 5 60041 SASSOFERRATO Italy
UN CPC code	35110. Paints and varnishes and related products
Geographical scope(s)	Global

PRODUCT IMAGES





TECHNICAL CHARACTERISTICS AND PERFORMANCE

Technical performance

Product name	Category	Water permeability	Resistance to washing away	Elongation at break (%)	Tensile Strength (N/mm ²)	Adhesion test on concrete Tensile mode (N/mm ²)	Accelerated weathering test	Viscosity at 23 °C (cPs)	Total heavy metals	Test VOC	Flexibility – cold conditions (°C)
Acriflex Rapido	Liquid Waterproofing Membrane	No permeability	20 min	160 ± 10	1,4 ± 0,5	0,536 Failure typology A/B	1680 hours (10 years)	20000 ± 5000	Pass	VOC-free	-
Acriflex X-Pro	Liquid Waterproofing Membrane	No permeability	-	90	4	0.5	1680 hours (10 years)	20000 ± 5000	Pass	VOC-free	-25
Acriflex Fybro (A+B)	Liquid Waterproofing Membrane	9.4 atm	-	149.33	2.37	1.089	1680 hours (10 years)	-	Pass	VOC-free	-26
Acriflex Pro	Liquid Waterproofing Membrane	succeeded	-	64.40	1.5	0.5	-	18000 ± 5000	Pass	VOC-free	-
Oriplast Reflex	Liquid Waterproofing Membrane	7 atm	-	327	1.20	0.78	3000 hours (> 17 years)	50000 – 65000	-	-	12 mm
Ultragum	Liquid Waterproofing Membrane										

Ultrabit	Liquid Waterproofing Membrane										
Watstop (A+B+C)	Liquid Waterproofing Membrane										
Acriflex Reflex	Liquid Waterproofing Membrane										
Antipioggia Terrazzi	Liquid Waterproofing Membrane										
Revela Zero	Liquid Waterproofing Membrane										

CONTENT DECLARATION

Content declaration of multiple products	The content declaration in this multi-product EPD represents a conservative formulation designed to reflect the worst-case scenario among the products included in the Waterproofing Line. This ensures that the environmental impacts declared represent the upper limit for all variations within the product group.
Hazardous and toxic substances	The product does not contain any substances from the SVHC candidate list in concentrations exceeding 0.1% of its weight.

PRODUCT CONTENT				
Content name	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material ¹ , kg C/declared unit
Water	0.459	0	0	0
Quartz	0.15	0	0	0
Talcum Powder	0.1	0	0	0
Cement	0.185	0	0	0
PAN fibers	0.005	0	0	0
Organic Additives	0.027	0	0	0
Inorganic Additives	0.01	0	0	0
Titanium Dioxide	0.05	0	0	0
Recycled Rubber	0.082	0	0	0
Siloxane Emulsion	0.062	0	0.725	0.007
Acrylic Resin	0.317	0	0	0
Epoxy Resin	0.09	0	0	0
Aliphatic Diammine	0.04	0	1.38	0.014
Total	1.577	0	2.105	0.021
Note 1	1 kg biogenic carbon is equivalent to 44/12 kg of CO ₂			

PACKAGING MATERIALS			
Material name	Mass, kg	Mass-% (versus the product)	Biogenic material ¹ , kg C/declared unit
Wood	0.0334	3.345	0.016

PP bucket	0.157	15.7	0.0705
LDPE Film	0.0051	0.53	0
Paper	0.0044	0.457	0
Total	0.1999	20.032	0.0865
Note 1	1 kg biogenic carbon is equivalent to 44/12 kg of CO ₂		

LCA INFORMATION

EPD based on declared or functional unit	Declared unit
Declared unit and reference flow	Ultragum Mass: 1 kg
Conversion factor to mass	1
Are infrastructure or capital goods included in any upstream, core or downstream processes?	☐ Yes ☒ No
Data sources used for this EPD	ecoinvent database (general) ecoinvent 3.11 database
LCA Software	SimaPro 10.3
Version of the EN 15804 reference package	EF Reference Package 3.1
Characterisation methods	EN 15804. VERSION: EF 3.1
Technology description including background system	The products considered are liquid waterproofing compounds, fluid membranes, and protective coatings belonging to the Waterproofing Line. This multi-product EPD reflects a conservative worst-case scenario formulation among all included product variations. The products mainly consist of water (0.048 to 0.87 kg/kg), acrylic resins (0.00 to 0.633 kg/kg), Portland cement (0.00 to 0.37 kg/kg), quartz (0.00 to 0.30 kg/kg), epoxy resins (0.00 to 0.18 kg/kg), and recycled rubber (0.00 to 0.164 kg/kg). The manufacturing process is an industrial batch (discontinuous) blending operation. Raw materials are mechanically mixed and packaged into plastic buckets (PP), palletized on wooden pallets, and wrapped with protective polymer film (LDPE). Municipal water is used exclusively for equipment cleaning between production cycles and discharged as industrial wastewater, operating as a closed-loop system with no material scraps generated. Manufacturing operations are powered by an electricity mix composed of 19.10% self-produced solar energy and 80.90% from the national grid (Italian Residual Mix). The LCA background system relies on the Ecoinvent 3.11 database and SimaPro 10.3.0 software, covering a 'Cradle-to-gate' boundary (Modules A1–A3).
Scrap (recycled material) inputs contribution level	Less than 10% of the GWP-GHG results in modules A1-A3 come from scrap inputs

Data quality assessment

Description of data quality assessment and reference years	2025
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DATA QUALITY ASSESSMENT					
Process name	Source type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3
Manufacturing of product	Collected data	EPD owner	2025	Primary data	0%
Generation of electricity used in manufacturing of product	Collected data and Database	EPD owner and AIB Residual Mix	2025	Primary data	8.5%
Input Raw materials	Collected data	EPD Owner Ecoinvent 3.11	2025	Primary data, Secondary Data	0%
Other processes	Databases	Ecoinvent 3.11	2025	Secondary Data	0%
Total share of primary data, of GWP-GHG results for A1-A3					8.5%
Note	The share of primary data is calculated based on GWP-GHG results. It is a simplified indicator for data quality that supports the use of more primary data to increase the representativeness of and comparability between EPDs. Note that the indicator does not capture all relevant aspects of data quality and is not comparable across product categories.				

ELECTRICITY USED IN THE MANUFACTURING PROCESS IN A3 (A5 FOR SERVICES)		
Type of electricity mix	Specific electricity mix as generated, or purchased from an electricity supplier, demonstrated by a contractual instrument	
Energy sources	Hydro	1.21%
	Wind	0.39%
	Solar	7.14%
	Biomass	0%
	Geothermal	0%
	Waste	0%
	Nuclear	4.73%
	Natural gas	44.69%
	Coal	0.09%
	Oil	6.6%
	Peat	0%

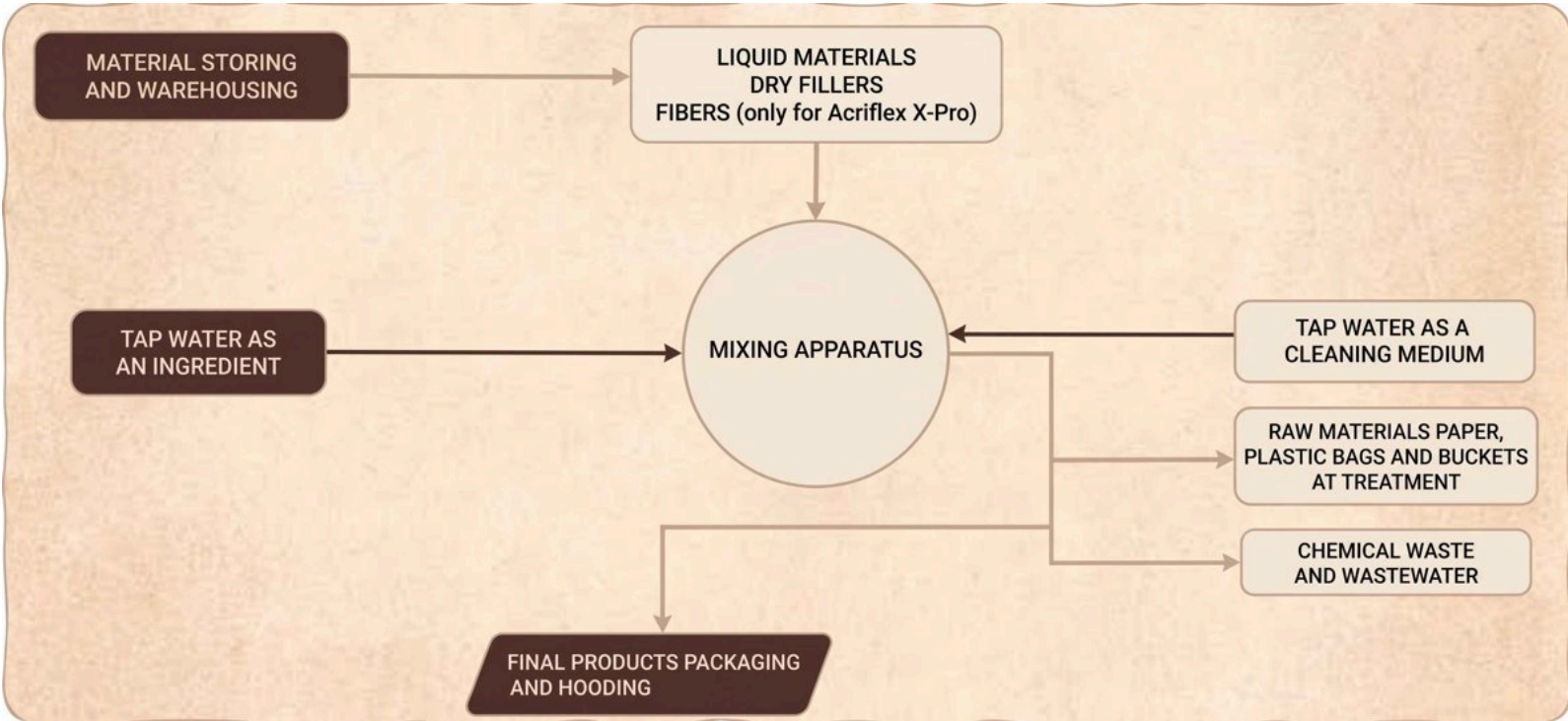
	Other	0%
Climate impact (GWP-GHG):	2.76 kg CO ₂ eq./kWh	

SYSTEM BOUNDARY

Description of the System boundary	d) Cradle to gate (A1-A3).
Excluded modules	No, there is no excluded module, or there are no excluded modules

	Product stage			Construction process stage	Use stage								End of life stage				Beyond product life cycle
	Raw material supply	Transport	Manufacturing	Transport to site	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Geography	Global	Global	Italy	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Share of specific data	8.5%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation - products	83.71%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation - sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disclaimer	The share of specific/primary data and both variations (products and sites) refer to GWP-GHG results only.																

Process flow diagram(s) related images



DEFAULT SCENARIO

Name of the default scenario	Cradle-to-Gate
Description of the default scenario	The system boundary of this EPD follows a 'Cradle-to-gate' approach, covering exclusively the product stage (Modules A1-A3). Construction process stage (A4-A5), Use stage (B1-B7), End-of-life stage (C1-C4), and Benefits and loads beyond the system boundary (Module D) are omitted (Not Declared).

ENVIRONMENTAL PERFORMANCE

The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.

Mandatory environmental performance indicators according to EN 15804

Impact category	Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Climate change - total	GWP-total	kg CO ₂ eq.	3.08E+0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Climate change - fossil	GWP-fossil	kg CO ₂ eq.	2.94E+0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Climate change - biogenic	GWP-biogenic	kg CO ₂ eq.	4.46E-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Climate change - land use and land-use change	GWP-luluc	kg CO ₂ eq.	1.40E-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ozone depletion	ODP	kg CFC-11 eq.	5.81E-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acidification	AP	mol H ⁺ eq.	1.19E-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Eutrophication aquatic freshwater	EP-freshwater	kg P eq.	7.30E-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Eutrophication aquatic marine	EP-marine	kg N eq.	4.07E-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Eutrophication terrestrial	EP-terrestrial	mol N eq.	2.65E-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Photochemical ozone formation	POCP	kg NMVOC eq.	1.08E-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Depletion of abiotic resources - minerals and metals	ADP-minerals&metals ¹	kg Sb eq.	1.49E-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Depletion of abiotic resources - fossil fuels	ADP-fossil ¹	MJ, net calorific value	5.28E+1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Water use	WDP ¹	m ³ world eq. deprived	5.70E-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption																
Disclaimer 1	The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator																

Additional mandatory environmental performance indicators

Impact category	Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Climate change - GWP-GHG	GWP-GHG ¹	kg CO ₂ eq.	2.76E+0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acronyms	GWP-GHG = Global warming potential greenhouse gas.																
Disclaimer 1	The GWP-GHG indicator is termed GWP-IOBC/GHG in the ILCD+EPD+ data format. The indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO ₂ is set to zero.																

Additional voluntary environmental performance indicators according to EN 15804

Impact category	Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter emissions	PM	Disease incidence	2.25E-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ionizing radiation - human health	IRP ¹	kBq U235 eq.	1.50E-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Eco-toxicity - freshwater	ETP-fw ²	CTUe	7.52E+1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Human toxicity - cancer effects	HTP-c ²	CTUh	2.74E-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Human toxicity - non-cancer effects	HTP-nc ²	CTUh	1.23E-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Land-use related impacts/soil quality	SQP ²	Dimensionless	1.67E+1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acronyms	PM = Potential incidence of disease due to particulate matter emissions; IRP = Potential human exposure efficiency relative to U235; ETP-fw = Potential comparative toxic unit for ecosystems; HTP-c = Potential comparative toxic unit for humans; HTP-nc = Potential comparative toxic unit for humans; SQP = Potential soil quality index.																
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 nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.																
Disclaimer 2	The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.																

Resource use indicators according to EN 15804

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ, net calorific value	1.03E+1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PERM	MJ, net calorific value	0.00E+0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PERT	MJ, net calorific value	1.03E+1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENRE	MJ, net calorific value	5.04E+1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENRM	MJ, net calorific value	4.45E+0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENRT	MJ, net calorific value	5.50E+1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SM	kg	0.00E+0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RSF	MJ, net calorific value	0.00E+0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NRSF	MJ, net calorific value	1.60E-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FW	m ³	5.50E-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acronyms	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; 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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water.															

Waste indicators according to EN 15804

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	1.08E-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NHWD	kg	1.92E+0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RWD	kg	3.76E-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acronyms	HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed.															

Output flow indicators according to EN 15804

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
CRU	kg	0.00E+0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MFR	kg	0.00E+0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MER	kg	0.00E+0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EEE	MJ, net calorific value	0.00E+0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EET	MJ, net calorific value	0.00E+0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acronyms	CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy.															

ABBREVIATIONS

Not Applicable

REFERENCES

- [1]. General Programme Instructions For The International Epd System - Version 5.0.1 2025-02-27;
- [2]. Product Category Rules (PCR) - Construction Products PCR 2019:14 - Version 2.0.1;
- [3]. ISO 14025:2010 - Environmental labels and declarations - Type III environmental declarations – Principles and procedures;
- [4]. ISO 14040:2021 - Environmental Management – Life cycle assessment – Principles and framework;
- [5]. ISO 14044:2021 - Environmental Management – Life cycle assessment – Requirements and guidelines;
- [6]. ISO 15804:2021 - Sustainability of construction works – Environmental product declarations - Core rules for the product category of construction products;
- [7]. ISO 15942:2021 - Sustainability of construction works — Environmental product declarations — Communication format business-to-business;
- [8]. ISO 14020:2023 - Environmental labels and declarations — General principles;
- [9]. Sito web: <https://www.enel.it/content/dam/enel-it/documenti-supperto/mercatolibero-luce/Tabella%20Mix%20Energetico%20Enel%20Energia.pdf>
- [10]. L. Dalhgren, H. Stripple, "A comparative Study of Various Concept for Shopping Bags and Cements Sacks". Study commissioned by Billerud Korsnäs AB. IVL Swedish Environmental Research Institute 2016. Report Number: U5732;
- [11]. Association of Issuing Bodies, "European Residual Mixes Results of the calculation of Residual Mixes for the calendar year 2023". Version 1.0, 2024-05-30;
- [12]. P. Guo, W. Meng, J. Du, L. Stevenson, B. Han, Y. Bao, "Lightweight ultra-high-performance concrete (UHPC) with expanded glass aggregate: Development, characterization, and life-cycle assessment". Construction and Building Materials 371 (2023);
- [13]. E.Battiston, F.Carollo, G.Tameni, E. Bernardo, A.Mazzi, "Life Cycle Assessment of Industrial Glass Cullet Recycling Process Based on Alkaline Activation". Ceramics2025;8,09;
- [14]. G. Manthos, D.Zagklis, C.Georgopoulos, C.Zafiri, M.Kornaros, "Life Cycle Assessment of Waste Glass Geopolymerization for the Production of Sustainable Construction Materials" Processes 2025, 13, 331;
- [15]. CONAI, "Relazione Generale Consuntiva 2024". (2025);
- [16]. ISPRA, "Rapporto Rifiuti Speciali" – Edizione 2025;
- [17]. R.N. Pereira, I. Malico, P. Mesquita, A.M.O. Sousa, A.C Goncalves, "Energy use of cork residues in the Portuguese cork industry". Conference Paper · October 2017.

VERSION HISTORY

Version 001, 2026-06-18

- Original version of the EPD

PDF template version 1

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