



ENVIRONMENTAL PRODUCT DECLARATION

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

MAPEFER 1K



An EPD should provide current information and may be updated if conditions change. The stated validity is, therefore, subject to the continued registration and publication at www.environdec.com.

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**The International
EPD® System;**
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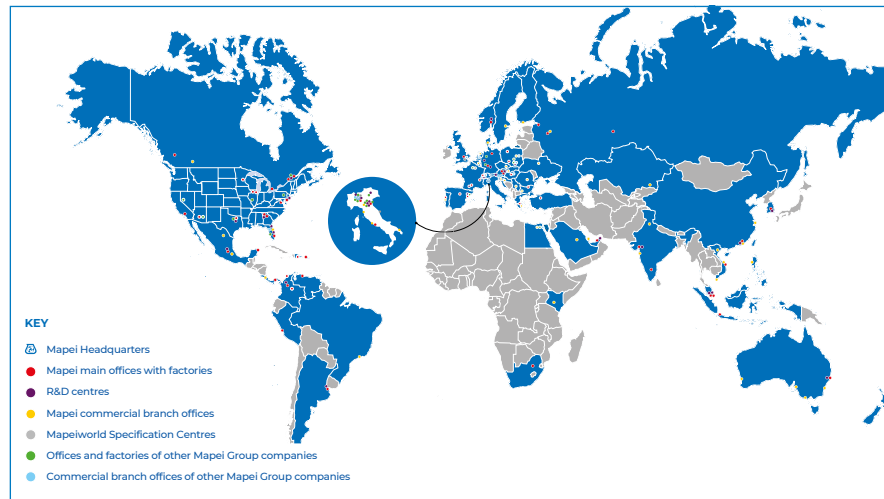
Geographical
scope:
Global



1. COMPANY DESCRIPTION / GOAL & SCOPE

Founded in 1937 in Milan, Italy, Mapei produces adhesives and complementary products for laying all types of floor, wall and coating materials, and also specializes in other chemical products used in the building industry, such as waterproofing products, specialty mortars, admixtures for concrete, cement additives, products for underground constructions and for the restoration of concrete and historical buildings.

With more than 14000 employees, Mapei Group currently has 92 subsidiaries with a total of 109 production facilities located around the world in 59 different countries. Mapei also has 39 central laboratories. Most locations are certified ISO 9001, 63% ISO 14001 and 64% ISO 45001. In 2025, Mapei invested €73 millions of its turnover in Research & Development. Furthermore, Mapei has developed a sales and technical service network with offices all over the world and offers an efficient Technical Assistance Service that is valued by architects, engineers, contractors and owners.



LEED V4.1 is the latest version of Leadership in Environmental and Energy Design, an American protocol that enables buildings to be certified as eco-sustainable according to parameters and credits described in the most widely adopted green building criteria in the world. Issued by the GBC US, it is mandatory for all LEED projects registered after October 2016. Numerous changes have been made to the previous version: Mapei products play a part in obtaining important credits thanks to their EPD's (type III environmental declarations) and their products with very low emission of VOC.

BREEAM® Launched in the UK in 1990, **BREEAM** (BRE Environmental Assessment Method) is a protocol for sustainable building practices adopted mainly in the United Kingdom and in Scandinavian countries with the version BREEAM NOR. By adopting this protocol, thanks to their EPD's and very low emission of VOC, Mapei products help towards obtaining relative credits.

The goal of the study is to provide necessary data and documentation to produce an EPD according to the requirements of PCR Environdec (version 1.11, 2021-02-05) under EN 15804:2012 +A2:2019/AC:2021 and to have more comprehension about the environmental impacts related to **Mapefer 1K** manufactured in Mapei SpA located in Latina (Italy), including packaging of the finished products.

Target audiences of the study are customers and other parties with an interest in the environmental impacts of **Mapefer 1K**. This

analysis shall not support comparative assertions intended to be disclosed to the public.

Figure 1: Mediglia Plant



2. PRODUCT DESCRIPTION

Mapefer 1K is a one-component mortar prepared according to a formula developed in the MAPEI Research & Development laboratories based on polymers in powder form, cementitious binders and corrosion inhibitors to be applied on reinforcing rods to prevent rust formation.

Mapefer 1K is available in cartons, each containing 4 bags of 5 kg.

For more information about the product see the TDS (Technical Data Sheet) on Mapei SpA website (www.mapei.com/it).

3. CONTENT DECLARATION

The main components and ancillary materials of the products included in this EPD are the following:

Table 1: Composition referred to 1 kg of finished product with packaging

Materials	Percentage (%) by mass
Inorganic Binders	< 50% (2,5% recycled pre-consumer)
Fillers	< 50%
Additives	< 5%
Packaging	Percentage (%) by mass
PE/Paper (bag)	<1%
Paperboard (box)	<0,5%
LDPE (wrapping material)	<0,5%
Wood (pallet)	<1%

The product does not contain a concentration higher than 0,1% (by unit weight) of either carcinogenic substances or substances of very high concern (SVHC) on the REACH Candidate List published by the European Chemicals Agency.

4. DECLARED UNIT AND REFERENCE SERVICE LIFE

The declared unit is 1 kg of finished product with packaging.

Due to the selected system boundary, the reference service life of the product is not specified.

5. SYSTEM BOUNDARIES AND ADDITIONAL TECHNICAL INFORMATION

The approach is “cradle to gate” (A1–A3) with modules C1–C4 and module D and optional modules (A1–A3 + A4 – A5 + C + D):

- A1, A2, A3 (Product stage): extraction and processing of raw materials and packaging (A1), transportation up to the factory gate (A2), manufacturing of the finished product (A3).
- A4 – A5 (Construction process stage): transport of the finished product to final customers and installation into the building.

- C1, C2, C3, C4 (End of Life stage): With a collection rate of 100% as C&D waste, the transports are carried out by lorry over 100 km (C2). A recycling ratio (C3) of 70% is considered in accordance with the European Directive 2008/98/CE. The remaining 30% is landfilled (C4).
- D (Resource recovery stage): contains credits from the recycling of the product in module C3.

Table 2: System boundaries

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	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	X	X	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X
Geography	IT	IT, EU	IT	EU	EU	-	-	-	-	-	-	-	EU	EU	EU	EU	EU
Specific data	> 90%					-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	Not-relevant					-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	Not-relevant					-	-	-	-	-	-	-	-	-	-	-	-

MND: Module Not Declared

A brief description of production process is the following:
 The production process starts from raw materials, that are purchased from external and intercompany suppliers and stored in the plant. Bulk raw materials are stored in specific silos and added automatically in the production mixer, according to the formula of the product. Other raw materials, supplied in bags, big bags or tanks, are stored in the warehouse and added automatically or manually in the mixer. The production is a discontinuous process, in which all the components are mechanically mixed in batches. The semi-finished product is then packaged, put on wooden pallets and stored in the finished products warehouse. The quality of final products is controlled before the sale.

Figure 2: production process detail

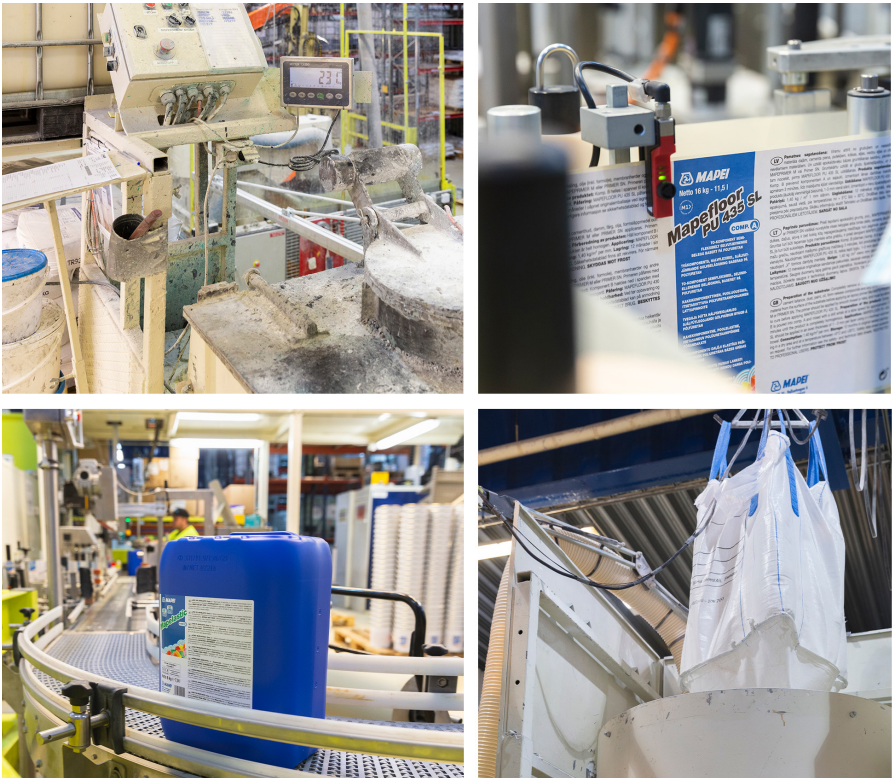


Table 3: Transport to the building site (A4)

Scenario information	Value	Unit
Means of transport: truck-trailer euro 5, gross weight 34-40 t, payload capacity 27 t		
Diesel consumption	0,002	l/100km
Transport distance	1000	km
Capacity utilisation (including empty runs)	85	%
Gross density of products transported	~ 1400	kg/m³
Capacity utilisation volume factor	1	-

Table 4: Installation into the building (A5)

Scenario information	Value	Unit
Ancillary materials for installation	0	kg
Water use	0,00022	m³
Other resources use	0	kg
Electricity (Italian grid mix)	0,00063	MJ
Output materials as result of waste processing at the building site	~ 0,01	kg
Waste materials on building site before waste processing	0,0066 (paper) 0,005 (paperboard) 0,000575 (plastics) 0,00828 (wood)	kg
Output materials (specified by type) as result of waste processing at the building site e.g. of collection for recycling, for energy recovery, disposal (specified by route)	0,011 (disposal) 0,02 (energy recovery)	kg
Direct emission to ambient air, soil and water	0	kg

6. CUT-OFF RULES AND ALLOCATION

Criteria for the exclusion of inputs and outputs (cut-off rules) in the LCA, information modules and any additional information are intended to support an efficient calculation procedure. They are not applied in order to hide data. Cut-off criteria, where applied, are described in Table 5.

Table 5: Cut-off criteria

Process excluded from study	Cut-off criteria	Quantified contribution from process
A3: production (auxiliary materials)	Less than 10^{-5} kg/kg of finished product	Sensitivity study demonstrates a relative contribution lower than 0,5%

For the allocation procedure and principles consider the following table (Table 6):

Table 6: Allocation procedure and principles

Module	Allocation Principle
A1	All data are referred to 1 kg of product A1: electricity is allocated to the specific production line
A3	All data are referred to 1 kg of packaged product A3-wastes: all data are allocated to the whole production plant

7. ENVIRONMENTAL PERFORMANCE AND INTERPRETATION



GWP

Climate change

GWPTotal - Global Warming Potential refers to the emission/presence of GHGs (greenhouse gases) in the atmosphere (mainly CO₂, N₂O, CH₄) which contribute to the increase in the temperature of the planet.

GWP-total considers:

- GWP-fossil
- GWP-biogenic
- GWP-luluc (land use and land use change)



ODP

Ozone Depletion

Ozone Depletion Potential refers to the degradation of the stratospheric layer of the ozone involved in blocking the UV component of sunrays. Depletion is due to particularly reactive components that originate from chlorofluorocarbon (CFC) or chlorofluoromethane (CFM).



AP

Acidification

Acidification Potential refers to the emission of specific acidifying substances (i.e. NO_x, SO_x) in the air. These substances decrease the pH of the rainfall with predictable damages to the ecosystem.



EP

Eutrophication

Eutrophication Potential refers to the nutrient enrichment, which determines unbalance in ecosystems and causes the death of the fauna and decreased biodiversity in flora.

It considers:

- EP-freshwater: aquatic freshwater
- EP-marine: aquatic marine
- EP-terrestrial



POCP

Photochemical ozone formation

The Photochemical Ozone Creation Potential is the ozone formation in low atmosphere. This is quite common in the cities where a great amount of pollutants (like VOC and NO_x) are emitted every day (industrial emissions and vehicles). It is mainly diffused during the summertime.



**ADP
minerals&metals**

Depletion of abiotic resources – minerals and metals

Abiotic Depletion Potential elements refers to the depletion of the mineral resources.



ADP - fossil

Depletion of abiotic resources – fossil fuel

Abiotic Depletion Potential fossil fuel refers to the depletion of the fossil fuel resources.



WDP

Water use

It expresses the potential deprivation of water, that consists in not having the water needs satisfied.

The following tables show the environmental impacts for the products considered according to the requirements of EN15804:2012+A2:2019/AC:2021. The results are referred to the declared unit (see § 4). The additional environmental indicators are not declared.

MAPEFER 1K

(1 kg of product with packaging)

Table 7: Mapefer 1K: Potential environmental impact – mandatory indicators according to EN 15804 referred to 1 kg of product with packaging

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP_{TOTAL}	(kg CO ₂ eq.)	6,68E-01	5,05E-02	5,93E-02	2,08E-03	8,19E-03	2,00E-03	4,72E-03	-1,07E-02
GWP _{FOSSIL}	(kg CO ₂ eq.)	6,83E-01	5,00E-02	4,65E-02	2,04E-03	8,11E-03	1,90E-03	4,69E-03	-1,07E-02
GWP _{BIOGENIC}	(kg CO ₂ eq.)	-1,53E-02	1,76E-04	1,28E-02	3,28E-05	2,84E-05	9,21E-05	1,58E-05	-3,26E-05
GWP _{LULUC}	(kg CO ₂ eq.)	2,67E-04	3,37E-04	9,54E-07	7,28E-07	5,45E-05	8,78E-06	8,66E-06	-4,11E-06
ODP	(kg CFC 11 eq.)	6,82E-08	4,91E-15	9,57E-15	4,18E-14	7,95E-16	2,83E-15	1,10E-14	-1,41E-14
AP	(mol H ⁺ eq.)	2,10E-03	1,52E-04	2,53E-05	2,83E-06	2,53E-05	9,80E-06	3,33E-05	-1,09E-05
EP _{FRESHWATER}	(kg P eq.)	8,35E-05	1,79E-07	7,52E-09	9,97E-09	2,89E-08	5,45E-09	7,96E-09	-6,16E-09
EP _{MARINE}	(kg N eq.)	2,25E-04	6,85E-05	9,69E-06	8,33E-07	1,14E-05	4,48E-06	8,51E-06	-4,61E-06
EP _{TERRESTRIAL}	(mol N eq.)	2,17E-03	7,69E-04	1,10E-04	8,96E-06	1,29E-04	4,95E-05	9,35E-05	-5,09E-05
POCP	(kg NMVOC eq.)	9,57E-04	1,36E-04	2,54E-05	2,20E-06	2,27E-05	1,22E-05	2,59E-05	-1,20E-05
ADP _{MINERALS&METALS} *	(kg Sb eq.)	8,38E-06	5,04E-09	2,29E-10	5,94E-10	8,16E-10	2,11E-09	4,81E-10	-8,80E-10
ADP _{FOSSIL} *	(MJ)	7,88E+00	6,56E-01	2,47E-02	2,89E-02	1,06E-01	3,71E-02	6,15E-02	-1,68E-01
WDP*	(m ³ world eq.)	1,66E-01	5,59E-04	1,53E-02	8,30E-04	9,05E-05	3,66E-04	5,15E-04	-9,05E-05

GWP_{TOTAL}: Global Warming Potential total; **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; **EP_{FRESHWATER}**: Eutrophication Potential, freshwater; **EP_{MARINE}**: Eutrophication Potential, marine; **EP_{TERRESTRIAL}**: Eutrophication Potential, terrestrial; **POCP**: Formation potential of tropospheric ozone; **ADP_{MINERALS&METALS}**: Abiotic Depletion Potential for non-fossil resources; **ADP_{FOSSIL}**: Abiotic Depletion Potential for fossil resources; **WDP**: Water Deprivation Potential.

* The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is a limited experience with the indicator

Table 8: Mapefer 1K: Potential environmental impact – additional mandatory and voluntary indicators referred to 1 kg of product with packaging

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-GHG	(kg CO ₂ eq.)	6,67E-01	4,94E-02	4,64E-02	2,02E-03	8,00E-03	1,86E-03	4,62E-03	-1,06E-02

GWP-GHG: The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

Table 9: Mapefer 1K: Use of resources referred to 1 kg of product with packaging

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	6,09E-01	4,55E-02	5,77E-03	2,48E-02	7,36E-03	2,98E-03	9,23E-03	-7,71E-03
PERM	MJ	2,42E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	8,48E-01	4,55E-02	5,77E-03	2,48E-02	7,36E-03	2,98E-03	9,23E-03	-7,71E-03
PENRE	MJ	8,01E+00	6,59E-01	2,48E-02	2,89E-02	1,07E-01	3,72E-02	6,16E-02	-1,68E-01
PENRM	MJ	1,25E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	9,13E+00	6,59E-01	2,48E-02	2,89E-02	1,07E-01	3,72E-02	6,16E-02	-1,68E-01
SM*	kg	2,50E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	2,27E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	4,34E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m ³	3,86E-03	5,26E-05	3,59E-04	2,18E-05	8,51E-06	1,04E-05	1,56E-05	-2,33E-05

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 (primary energy and 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 (primary energy and primary energy resources used as raw materials); **SM:** Use of secondary material; **RSF:** Use of renewable secondary fuels; **NRSF:** Use of non-renewable secondary fuels; **FW:** Net use of fresh water.

* Referred only to 1 kg of product without packaging

Table 10: Mapefer 1K: Waste production and output flows referred to 1 kg of product with packaging

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	kg	8,85E-03	3,49E-12	2,45E-12	6,11E-12	5,64E-13	4,65E-13	3,16E-12	-3,37E-11
NHWD	kg	2,65E-03	1,07E-04	1,70E-02	3,21E-05	1,74E-05	9,87E-06	3,15E-01	-1,51E-02
RWD	kg	9,82E-06	1,22E-06	1,04E-06	1,29E-06	1,98E-07	4,90E-07	6,85E-07	-7,51E-07
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	9,38E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, thermal	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

HWD: Hazardous waste disposed; **NHWD:** Non-Hazardous waste disposed; **RWD:** Radioactive waste disposed

Table 11: Mapefer 1K: Information on biogenic carbon content at the factory gate referred to 1 kg of product with packaging

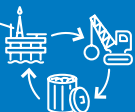
Biogenic Carbon Content	Unit	Quantity
Biogenic carbon content in product	kg C	0,00E+00
Biogenic carbon content in packaging	kg C	3,56E-03

Tables from 7 to 11 show absolute results for all the environmental categories considered.

The main contribution to the environmental impact categories in the product life cycle comes from **module A1** (extraction and processing of raw materials). Its relative contribution is over 50% in all the categories and in most of them it's higher than 90%. Referring to the biogenic carbon stored in product and packaging, the negative impacts on GWP_{BIOGENIC} (in **modules A1** and **A3**) is compensated in the **modules A5** and **C3**, when the product and packaging reach their end of life. A minor contribution in GWP_{FOSSIL} and ADP_{FOSSIL} is due to the manufacturing process (**Module A3**).

An overview about the average contribution to the different modules considered in the system boundaries are shown in Table 12.

Table 12: Some environmental impacts of Mapefer 1K

ENVIRONMENTAL IMPACT	 A1-A3	 A4	 A5	 C1	 C2	 C3	 C4	 D	 TOT
CLIMATE CHANGE (TOTAL) 	 6,68E-01	 5,05E-02	 5,93E-02	 2,08E-03	 8,19E-03	 2,00E-03	 4,72E-03	 1,07E-02	7,84E-01 kg CO ₂ eq.
ACIDIFICATION 	 2,10E-03	 1,52E-04	 2,53E-05	 2,83E-06	 2,53E-05	 9,80E-06	 3,33E-05	 -1,09E-05	2,34E-03 mol H ⁺ eq.
DEPLETION OF ABIOTIC RESOURCES (FOSSIL) 	 7,88E+00	 6,56E-01	 2,47E-02	 2,89E-02	 1,06E-01	 3,71E-02	 6,15E-02	 -1,68E-01	8,63E+00 MJ
WATER USE 	 1,66E-01	 5,59E-04	 1,53E-02	 8,30E-04	 9,05E-05	 3,66E-04	 5,15E-04	 -9,05E-05	1,84E-01 m ³ world eq.

More details about electrical mix used in this EPD, is shown below:

	Data source	GWP-GHG	Unit
Residual electricity grid mix (IT) – 2020	AIB	0,525*	kg CO ₂ -eqv/kWh

*CML2001 – Aug. 2016

8. DATA QUALITY

Table 13: Data quality

Dataset & Geographical reference	Database (source)	Temporary reference
A1; A3		
Inorganic Binders (IT)	Sphera Database; S-P-00880	2021-2026
Fillers (IT)	Sphera Database; Ecoinvent 3.8	2021
Additives (EU)	Ecoinvent 3.8	2021
Residual electricity grid mix (IT)	Sphera Database	2020
Packaging components (EU)	Sphera Database; Ecoinvent 3.8;	2021
A2		
Truck, Euro 5, 27t payload (GLO)	Sphera Database	2021
Light train, gross tonne weight 500t / 363t payload (GLO)	Sphera Database	2021
Oceanic ship (27500 DWT – GLO)	Sphera Database	2021
Diesel for transport (EU)	Sphera Database	2018
Heavy Fuel Oil (EU)	Sphera Database	2018
Electricity grid mix (EU)	Sphera Database	2018
A4		
Truck, Euro 5, 27t payload (GLO)	Sphera Database	2021
Diesel for transport (EU)	Sphera Database	2018
A5		
Tap water from surface water	Sphera Database	2021
Commercial waste in municipal waste incineration plant	Sphera Database	2021
Inert matter on landfill	Sphera Database	2021
Electricity grid mix (EU)	Sphera database	2018
C1-C4		
Truck (EURO 6 - 9,3 ton payload – GLO)	Sphera Database	2021
Electricity grid mix (EU)	Sphera Database	2018
Diesel for transport (EU)	Sphera Database	2018
Construction waste dumping (EU)	Sphera Database	2021
Construction waste treatment (EU)	Sphera Database	2021

All data included in table above refer to a period between 2018 and 2021; the most relevant ones are specific from supplier, while the others (i.e. transport and minor contribution dataset), come from European and global databases.

All dataset are not more than 10 years old according to EN 15804 §6.3.8.2 “Data quality requirements”. The Quality level concerning datasets used in the EPD can be considered as “very good” or “good” according to Annex E of the EN 15804 (current version).

Primary data concern the year 2021 and represent the whole annual production.

9 ADDITIONAL INFORMATION

9.1 Recycled Content

Products	Recycled material content (Pre-Consumer)
Mapefer 1k	2,5%

9.2 End of life / Recyclability

Our Multiply bags are recyclable up to 90% (ATICELCA class A) according to UNI 11743.

The finished products can be recycled at the end of life, after demolition, according to the national laws.

9.3 Biogenic Content

The biogenic carbon content in packaging at the factory gate referred to 1 kg of product with packaging is 3,56E-03.



9.4 VOC emission

The product meets the requirements for the emission class EMICODE® **EC1^{PLUS}**, as "very low emission", released by GEV.

10. DIFFERENCES VERSUS PREVIOUS VERSION

2023-09-22: Chapter 9.1 has been updated. Editorial changes.

2024-05-14: Updated images on the cover page. Removed chapter 9.3 - disassembly. Editorial changes.

2026-07-14: Editorial changes

11. VERIFICATION AND REGISTRATION

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

EPDs within the same product category but from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.

CEN standard EN15804 served as the Core Product Category Rules (PCR)	
PCR:	PCR 2019:14 Construction products (EN 15804:A2), Version 1.11, 2021-02-05, UN CPC code 54
PCR review was conducted by:	The Technical Committee of the International EPD® System. See www.environdec.com/TC for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact .
Independent third-party verification of the declaration and data, according to ISO 14025:2006:	☒ EPD Process Certification ☐ EPD Verification
Third party verifier:	Certiquality S.r.l. Number of accreditation: 003H rev15
Accredited or approved by:	Accredia
Procedure for follow-up of data during EPD validity involves third-party verifier	☒ Yes ☐ No

12. REFERENCES

- EN 15804: SUSTAINABILITY OF CONSTRUCTION WORKS - ENVIRONMENTAL PRODUCT DECLARATIONS - CORE RULES FOR THE PRODUCT CATEGORY OF CONSTRUCTION PRODUCTS
- EUROPEAN DIRECTIVE 2008/98/EC
- EUROPEAN RESIDUAL MIXES VERSION 1.0, 2021-05-31 (AIB: ASSOCIATION OF ISSUING BODIES)
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