Issuance date: 07.2025
Validity date: 07.2029

Type III Environmental Product Declaration No. 800/2025

CAMELEO Deco Coatings

Crafptclay Clay Coatingns

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BASIC INFORMATION

This declaration is the Type III Environmental Product Declaration (EPD) based on EN 15804+A2 and verified according to ISO 14025 by an external auditor. It contains the information on the impacts of the declared construction materials on the environment and their aspects verified by the independent body according to ISO 14025. Basically, comparison or evaluation of EPD data is possible only if all the compared data were created according to EN 15804+A2.

Life cycle analysis (LCA): A1-A3, C1-C4 and D modules in accordance with EN 15804+A2 (Cradle-to-Gate with options)
The year of preparing the EPD: 2024
Product standard: PN-EN 15824
Service Life: 30 years
PCR: ITB-PCR A, v. 1.6
Declared unit: 1kg
Reasons for performing LCA: B2B
Representativeness: Polish, European

PRODUCTS DESCRIPTION AND APPLICATION

The EPD covers the full range of decorative finishing products manufactured by CAMELEO, divided into two main categories: dry products and wet products. Each product line is designed to meet the aesthetic, functional, and environmental expectations of modern interior design and sustainable architecture.

Dry products include:

CAMELEO – a line of mineral-based decorative coatings offering a variety of textures and finishes, such as natural stone, velvet, and concrete effects.

CRAFTCLAY – a collection of clay-based finishes that bring warmth and earthy tones to interior spaces, emphasizing natural aesthetics and tactile surfaces.

CEMMENTAL – cementitious decorative plasters designed to replicate raw concrete and industrial surfaces, ideal for contemporary architectural styles.

Wet products include:

CAMELEO – water-based paints and coatings available in matte, satin, and glossy finishes, suitable for both walls and ceilings.

CRAFTCLAY – clay-effect coatings in liquid form, allowing for seamless application and smooth finishes with natural color variations.

CEMMENTAL – wet-applied concrete-look finishes providing a raw, urban aesthetic with high durability and ease of use.

All CAMELEO products are developed with sustainability in mind. They are low-emission, non-toxic, and safe for indoor air quality. The formulations are free from harmful substances, making them suitable for residential, commercial, and public spaces.

Fig. 1 Representative decorative finishes from CAMELEO product lines: CraftClay (natural clay textures), Cemmental (concrete-inspired surfaces), and Cameleo (classic and modern effects including stucco, rust, and metallic finishes).

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Product Details and Technical Properties

Property	CAMELEO	CRAFTCLAY	CEMMENTAL
Type	Decorative water-based coatings	Clay-based decorative coatings	Cement-based decorative coatings
Form	Liquid (wet application)	Paste / Liquid	Powder (mixed with water before application)
Application Method	Brush, roller, or spray	Trowel, spatula	Trowel, roller, or sponge
Effect Types	Stucco, velvet, metallic, rust, patina, satin & gloss finishes	Earthy textures, natural clay, handcrafted look	Raw concrete, urban/industrial, smooth or structured finishes
Binder	Water-based acrylic or hybrid binder	Natural clay and mineral binders	White cement and mineral binders
Pigments	Mineral and synthetic pigments	Natural earth pigments	Mineral pigments
VOC Content	Low (<30 g/L)	Very low	Low
Density (wet/mixed)	~1.3 g/cm³	~1.5 g/cm³	~1.6–1.8 g/cm³
Packaging	Buckets (1L / 5L / 10L)	Buckets or tubs (5kg / 10kg)	Paper bags with lining (10kg / 20kg)
Coverage	~8–12 m²/L per coat	~1.5–3 kg/m² (depending on texture)	~2–4 kg/m² (depending on thickness)
Finish	Matte / Satin / Gloss	Matte, tactile finish	Matte or natural raw finish
Recommended Use	Interiors: walls, ceilings	Interiors: feature walls, natural designs	Interiors: walls, commercial & modern industrial spaces
Environmental Profile	Low-VOC, water-based, suitable for green buildings	Mineral-based, no harmful emissions	Cementitious, long-lasting, recyclable surface
Compliance	REACH, EN 13300	REACH-compliant, natural components	REACH, CE-marked where applicable
Maintenance	Washable, depending on finish	Dust-off recommended, avoid strong chemicals	Occasional dry cleaning or damp cloth, resealing optional

Table 1. Product details and technical properties of the Dreweko Sp. z o.o. wooden engineered floorboards.

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LIFE CYCLE ASSESSMENT (LCA) – general rules applied

System boundary

The life cycle assessment of the declared products covers the “Product Stage” (modules A1–A3), as well as modules C1–C4 and D, in accordance with EN 15804+A2 and ITB PCR A, v. 1.6 (cradle to gate with options). The analysis includes raw material supply, transport, and production processes. All relevant energy, water, and material inputs, as well as emissions and waste generated during production, have been inventoried and included. Packaging materials (e.g. plastic buckets, paper bags, shrink film) are included within system boundaries. The total mass and energy of omitted processes does not exceed 5% of total environmental impact. Capital goods (infrastructure, machinery) and transport of employees were excluded from the assessment.

Allocation

The environmental impacts have been allocated to two main product categories: dry products (e.g. Cemmental, dry CraftClay) and wet products (e.g. Cameleo, liquid CraftClay). The wet products are derived from dry product bases by adding water during the formulation process. Therefore, emissions and inputs have been proportionally allocated to both product categories, considering both mass and process intensity (e.g. mixing, dispersion, packaging). Shared impacts such as energy, auxiliary materials, and emissions were distributed according to mass contribution and functional similarity. Recycled content and packaging were modeled using the avoided burden approach. No environmental benefits were claimed beyond the system boundary.

System boundaries and assumptions

The analysis includes material inputs such as mineral binders (cement, clay, lime), fillers, pigments, water, and additives. Wet products involve additional water and mixing energy. Production waste and packaging waste were included. Excluded processes (e.g. transport of workers, capital equipment) represent less than 5% of total impact per EN 15804+A2. No credits were allocated for recycling packaging waste beyond system boundaries.

Modules A1 and A2: Raw materials supply and transport

Raw materials are sourced from European suppliers and include mineral binders, pigments, additives, water and packaging materials. Transport distances are based on supplier declarations or European averages. Environmental impacts were modeled using representative datasets from the Ecoinvent database (v3.8), based on actual formulations for each product group.

Module A3: Production

Dry products are manufactured by dosing and mixing dry powders, fillers and pigments, then packaging into paper bags or buckets. Wet products follow a similar process, with the addition of water and dispersing agents in high-shear mixers. Both types are subject to quality control and automated or manual packaging. Electricity and water use, process emissions, and waste treatment were included based on on-site data and engineering estimates.

Results presentation

Separate result tables are presented for dry product group and wet product group, reflecting their individual compositions, manufacturing processes, and functional differences. Environmental indicators include climate change potential, resource use, water consumption, and waste generation per 1 kg of product.

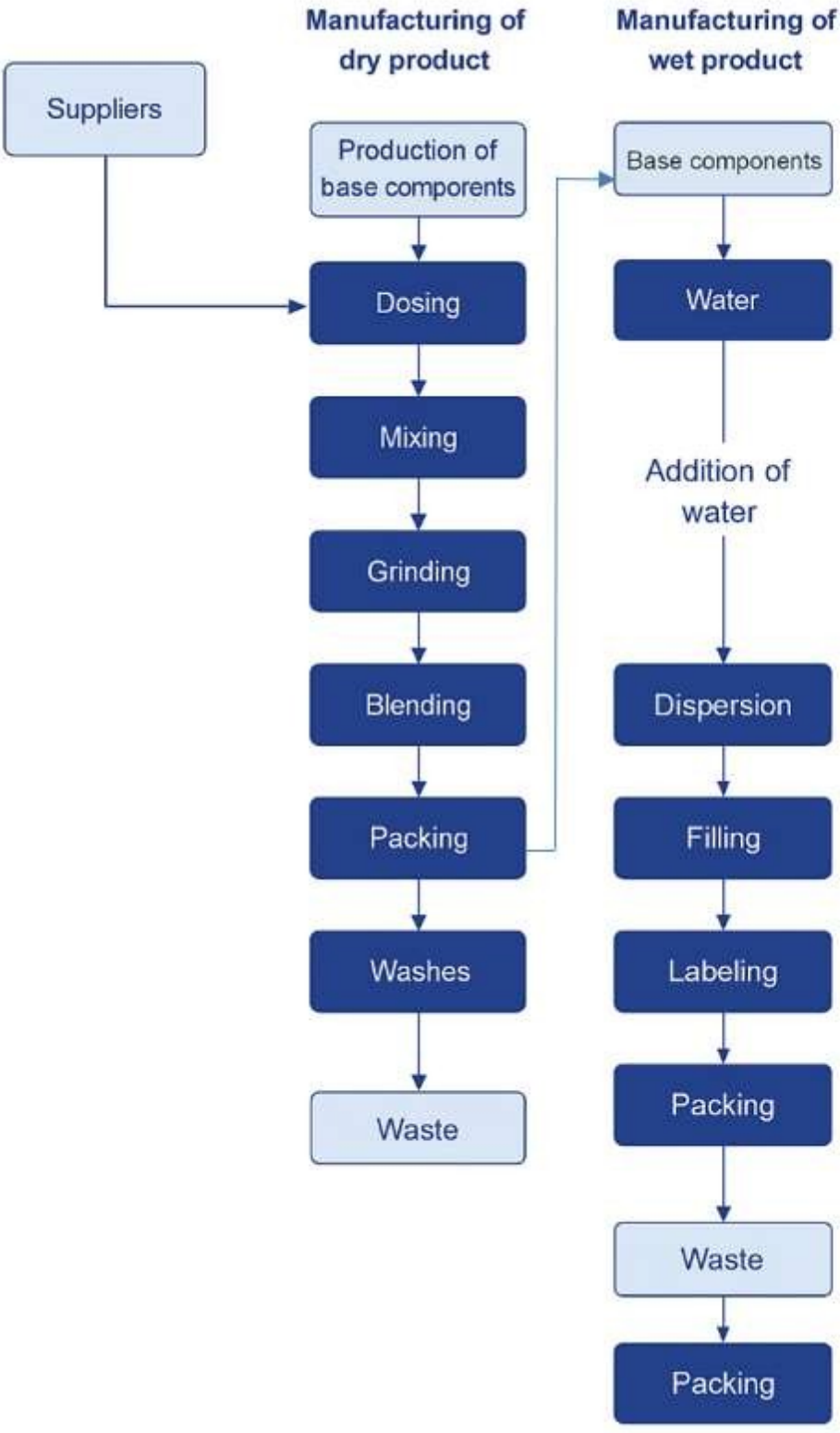

Table 1. Product details and technical properties of the Dreweko Sp. z o.o. wooden engineered floorboards.

Modules C1–C4 end-of-life (EOL) and D

The end-of-life scenario includes both dry and wet decorative coating products. At the end of their service life, coatings are typically removed mechanically (C1) and managed through mixed construction or municipal waste streams. Based on general practice for such materials, 90% is assumed to be landfilled, while 10% may be recovered or recycled, primarily through inert material recovery or use as filler in construction.

Electricity consumption at the end-of-life stages (modules C2 and

C4) was modeled using the average European electricity mix, due to the unknown final destination of the product.

Table 2. End-of-life scenario for CAMELEO product components

Material	Recycling [%]	Landfilling [%]
silica sand	0.90	0.10
calcium carbonate, precipitated	0.90	0.10
ethylene vinyl acetate copolymer	0.90	0.10
lime, hydrated, packe	0.90	0.10
styrene-acrylonitrile copolymer	0.90	0.10
cement, Portland	0.90	0.10
kaolin production	0.10	1.00
titanium dioxide	0.30	0.70

Data collection period

The data used for this EPD refers to the production period: 01.01.2024 – 31.12.2024.

The life cycle assessment was performed for the European and Polish market context.

Data quality

Primary data was collected directly from CAMELEO's production site and reflects current manufacturing practices. No data used is older than 10 years. Background processes such as energy, transport, and raw materials were modeled using the Ecoinvent v.3.10 database.
Data quality was assessed according to ITB verification standards, including consistency, completeness, and representativeness.

Assumptions and estimates

The environmental results presented are based on weighted averages of dry and wet product formulations. Wet products are modeled as hydrated versions of dry bases, with emissions allocated accordingly. Proxy datasets were used when specific materials were not available in Ecoinvent, with selection based on composition and function.

Calculation rules

The LCA was performed using openLCA software in accordance with EN 15804+A2 and ITB PCR A v.1.6.
The following environmental indicators were included:

- Global warming potential (GWP)
- Acidification and eutrophication
- Ozone formation and depletion
- Abiotic resource depletion
- Waste use and waste generation

Impact calculations were performed using CML-IA baseline method where applicable.

Additional information

Electricity for the Polish market was modeled using Ecoinvent v.3.10 and supplemented with updated national data from KOBiZE. The applied carbon intensity factor was:
0.698 kg CO_2/kWh

No additional environmental or health protection measures are required beyond those specified by law.

LIFE CYCLE ASSESSMENT (LCA) – Results

Declared unit

The declaration refers to declared unit (DU) – 1 kg of the averaged dry and 1 kg of the averaged wet decorative finishing products Cameleo, CraftClay, Cemmental manufactured by Cameleo Sp. z o.o..

The following life cycle modules (Table 3) were included in the analysis.

Table 3. System boundaries for the environmental characteristic of the 1 kgof the averaged dry and 1 kg of the averaged wet decorative finishing products Cameleo, CraftClay, Cemmental manufactured by Cameleo Sp. z o.o..

Environmental assessment information (MD – Module Declared, MND – Module Not Declared, INA – Indicator Not Assessed)																
Product stage			Construction process		Use stage							End of life				Benefits and loads beyond the system boundary
Raw material supply	Transport	Manufacturing	Transport to construction site	Construction-installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction demolition	Transport	Waste processing	Disposal	Reuse-recovery-recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
MD	MD	MD	MND	MND	MND	MND	MND	MND	MND	MND	MND	MD	MD	MD	MD	MD

The declaration refers to declared unit (DU) – 1 kg of the averaged dry and 1 kg of the averaged wet decorative finishing products Cameleo, CraftClay, Cemmental manufactured by Cameleo Sp. z o.o..

The following life cycle modules (Table 3) were included in the analysis. The following tables 4-7 show the environmental impacts of the life cycle of declaredmodules (A1- A3, C1-C4+D).

Table 4. Life cycle assessment (LCA) results of the 1 kg of the averaged dry decorative finishing products Cameleo, CraftClay, Cemmental manufac
Cameleo Sp. z o.o.

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2
Global Warming Potential - total	eq. kg CO_2	8.42880E-01	2.93500E-02	2.44240E-01	1.20400E-02	5.32000E-01	1.70880E-01
Greenhouse potential - fossil	eq. kg CO_2	8.42220E-01	2.93200E-02	2.34660E-01	2.42570E-01	1.20300E-02	5.30060E-01
Greenhouse potential - biogenic	eq. kg CO_2	2.40000E-04	2.02286E-05	1.58000E-03	1.64400E-02	2.21000E-03	1.36000E-03
Global warming potential - land use and land use change	eq. kg CO_2	4.20000E-04	9.64742E-06	4.32195E-05	8.50751E-05	2.40000E-04	9.51629E-05
Stratospheric ozone depletion potential	eq. kg CFC 11	1.77647E-08	5.86470E-10	2.38308E-10	1.30888E-08	3.04792E-09	1.29338E-08
Soil and water acidification potential	eq. mol H+	3.52000E-03	1.20000E-04	1.73000E-03	3.59295E-05	1.93000E-03	7.30000E-04
Eutrophication potential - freshwater	eq. kg P	1.80000E-04	1.96970E-06	2.85702E-05	7.85702E-07	1.50192E-05	9.68996E-05
Eutrophication potential - seawater	eq. kg N	6.10000E-04	4.39829E-05	1.20516E-04	1.20516E-05	4.00014E-04	1.00041E-04
Eutrophication potential - terrestrial	eq. mol N	6.22000E-03	6.20000E-04	3.80000E-04	1.30000E-04	1.43000E-03	1.43000E-03
Potential for photochemical ozone synthesis	eq. kg NMVOC	3.14000E-03	1.80000E-04	6.30000E-04	5.67834E-05	2.11000E-03	2.11000E-03
Potential for depletion of abiotic resources - non-fossil resources	eq. kg Sb	6.60976E-06	9.96511E-08	1.10664E-07	8.55997E-08	4.82465E-06	1.09721E-06
Abiotic depletion potential - fossil fuels	MJ	1.47898E+01	4.14370E-01	2.80018E+00	1.67590E-01	1.09311E+01	4.42940E+00
Water deprivation potential	eq. m^3	3.01600E-01	2.00000E-03	6.35000E-03	9.76000E-03	1.92600E-02	4.62000E-03

Table 5. Life cycle assessment (LCA) results of the 1 kg of the averaged dry decorative finishing products Cameleo, CraftClay, Cemmental manuf

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2	
Particulate matter	disease incidence	3.03565E-08	2.37173E-09	8.12771E-09	1.82650E-08	7.61361E-09	1.92038E-08	-
Potential human exposure efficiency relative to U235	eg. kBq U235	5.14000E-02	5.00000E-04	2.60000E-04	3.08700E-02	1.39800E-02	2.20000E-04	-
Potential comparative toxic unit for ecosystems	CTUe	5.15972E+00	1.11290E-01	4.38500E-02	2.63091E+00	1.58662E+00	-2.54179E+00	0
Potential comparative toxic unit for humans (cancer effects)	CTUh	2.33978E-09	2.06342E-10	7.18646E-11	1.14205E-09	3.80605E-10	1.45492E-09	-
Potential comparative toxic unit for humans (non-cancer effects)	CTUh	8.68068E-09	2.66375E-10	3.32896E-09	5.12401E-09	1.41903E-09	-5.16916E-09	0
Potential soil quality index	dimensionless	3.03565E-08	2.37173E-09	8.12771E-09	1.82650E-08	7.61361E-09	1.92038E-08	-

Table 6. Life cycle assessment (LCA) results of the 1 kg of the averaged dry decorative finishing products Cameleo, CraftClay, Cemmental manuf

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2	C3
Consumption of renewable primary energy - excluding renewable primary energy sources used as raw materials	MJ	5.99510E-01	6.18000E-03	1.16980E-01	2.73390E-01	2.92000E-03	3.31060E-01	1.4192
Consumption of renewable primary energy resources used as raw materials	MJ	1.10380E-01	8.50000E-04	1.30500E-02	3.02200E-02	3.10000E-04	7.83300E-02	2.0020
Total consumption of renewable primary energy resources	MJ	7.09890E-01	7.03000E-03	1.30030E-01	3.23000E-03	4.09380E-01	1.61930E-01	-4.0334
Consumption of non-renewable primary energy - excluding renewable primary energy sources used as raw materials	MJ	1.39574E+01	3.75820E-01	2.60582E+00	2.77420E+00	1.03074E+01	2.30116E+00	-1.0200
Consumption of non-renewable primary energy resources used as raw materials	MJ	8.32730E-01	3.85700E-02	2.59300E-02	1.56300E-02	6.23780E-01	1.28300E-01	-6.2007
Total consumption of non-renewable primary energy resources	MJ	1.47901E+01	4.14370E-01	2.80018E+00	2.77420E+00	1.09311E+01	2.42946E+00	-1.0820
Consumption of secondary materials	kg	3.90050E-02	4.70000E-04	8.22000E-03	1.33000E-02	1.10000E-02	1.38000E-02	-1.1700
Consumption of renew. secondary fuels	MJ	1.46500E-02	1.30000E-04	4.57000E-03	1.07900E-02	7.02674E-03	8.79000E-03	4.5100
Consumption of non-renewable secondary fuels	MJ	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.0000
Net consumption of freshwater	m^3	8.34400E-03	5.50420E-05	3.14000E-03	7.28000E-03	2.27118E-05	4.98008E-03	-1.6400

Table 7. Life cycle assessment (LCA) results of the 1 kg of the averaged dry decorative finishing products Cameleo, CraftClay, Cemmental manuf

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2	C
Hazardous waste	kg	6.59100E-02	4.10000E-04	5.44000E-03	1.00400E-02	1.50000E-04	2.54100E-02	3.016
Non-hazardous waste	kg	1.13222E+00	4.50000E-03	1.41260E-01	2.37300E-02	1.87000E-03	2.39910E-01	3.091
Radioactive waste	kg	1.30954E-05	1.32106E-07	9.67862E-07	2.13560E-06	6.41456E-08	7.85401E-06	3.588
Components for re-use	kg	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.000
Materials for recycling	kg	2.70500E-02	4.20000E-04	7.92000E-03	1.81300E-02	1.90000E-04	1.66100E-02	7.900
Materials for energy recovery	kg	6.59100E-02	4.10000E-04	5.44000E-03	1.00400E-02	1.50000E-04	2.54100E-02	3.016
Exported Energy	MJ	1.13222E+00	4.50000E-03	1.41260E-01	2.37300E-02	1.87000E-03	2.39910E-01	3.091

Table 8. Life cycle assessment (LCA) results of the 1 kg of the averaged wet decorative finishing products Cameleo, CraftClay, Cemmental manufa
Cameleo Sp. z o.o.

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2
Global Warming Potential - total	eq. kg CO_2	8.58450E-01	2.29220E-02	2.51114E-01	2.44240E-01	1.20400E-02	2.32850E-01
Greenhouse potential - fossil	eq. kg CO_2	8.57180E-01	2.28600E-02	2.34460E-01	2.42570E-01	1.20300E-02	2.31830E-01
Greenhouse potential - biogenic	eq. kg CO_2	3.70000E-04	1.57669E-05	1.64400E-02	1.58000E-03	2.10000E-03	8.90000E-04
Global warming potential - land use and land use change	eq. kg CO_2	9.00000E-04	7.51957E-05	4.32195E-05	8.50751E-05	3.77999E-05	1.90975E-05
Stratospheric ozone depletion potential	eq. kg CFC 11	3.01816E-08	4.57117E-10	7.24238E-09	1.00105E-09	2.39380E-10	7.39417E-09
Soil and water acidification potential	eq. mol H+	3.59000E-03	9.10347E-05	8.00000E-04	1.70000E-03	3.59239E-05	9.00000E-04
Eutrophication potential - freshwater	eq. kg P	2.00000E-04	1.53526E-06	1.20000E-04	2.90000E-04	7.85702E-05	4.95244E-05
Eutrophication potential - seawater	eq. kg N	6.40000E-04	3.42820E-05	1.00502E-04	2.00502E-04	1.20516E-05	3.86780E-05
Eutrophication potential - terrestrial	eq. mol N	6.86000E-03	6.00000E-04	3.00000E-04	1.00000E-03	1.00000E-03	2.00000E-03
Potential for photochemical ozone synthesis	eq. kg NMVOC	3.39000E-03	1.00014E-04	5.40000E-04	6.30000E-04	5.67384E-05	1.00102E-03
Potential for depletion of abiotic resources - non-fossil resources	eq. kg Sb	9.58577E-06	7.53336E-08	1.10664E-07	8.55997E-08	3.93434E-08	2.87530E-06
Abiotic depletion potential - fossil fuels	MJ	1.71793E+01	3.22977E-01	2.72006E+00	2.80018E+00	1.67599E-01	4.82118E+00
Water deprivation potential	eq. m^3	2.57100E-01	1.05000E-03	5.60000E-03	2.56600E-02	8.00000E-04	6.67800E-02

Table 9. Life cycle assessment (LCA) results of the 1 kg of the averaged wet decorative finishing products Cameleo, CraftClay, Cemmental manuf

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2	
Particulate matter	disease incidence	3.18295E-08	1.84862E-09	1.84875E-09	2.89645E-09	8.12771E-09	7.62082E-09	3
Potential human exposure efficiency relative to U235	eg. kBq U235	5.63600E-02	4.10000E-04	3.94000E-03	6.88000E-03	2.60000E-04	1.57900E-02	2
Potential comparative toxic unit for ecosystems	CTUe	1.77904E+01	8.67400E-02	6.96810E-01	7.08930E-01	4.34850E-02	1.06337E+00	1
Potential comparative toxic unit for humans (cancer effects)	CTUh	5.34542E-09	1.60831E-10	3.78069E-10	3.07541E-10	7.18664E-11	7.97355E-10	1
Potential comparative toxic unit for humans (non-cancer effects)	CTUh	1.06374E-08	2.07632E-10	2.76780E-09	3.23896E-09	1.00775E-10	2.87767E-09	5
Potential soil quality index	dimensionless	7.62090E-01	1.92250E-01	3.32920E-01	5.11650E-01	6.28900E-02	9.27980E-01	1

Table 10. Life cycle assessment (LCA) results of the 1 kg of the averaged wet decorative finishing products Cameleo, CraftClay, Cemmental manu

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2	
Consumption of renewable primary energy - excluding renewable primary energy sources used as raw materials	MJ	6.46690E-01	4.82000E-03	1.16980E-01	2.73390E-01	2.92000E-03	1.68430E-01	2.7
Consumption of renewable primary energy resources used as raw materials	MJ	1.24940E-01	6.60000E-04	1.30500E-02	3.02200E-02	3.10000E-04	4.65900E-02	6.0
Total consumption of renewable primary energy resources	MJ	7.71630E-01	5.48000E-03	1.30030E-01	3.03610E-01	3.23000E-03	2.15200E-01	3.3
Consumption of non-renewable primary energy - excluding renewable primary energy sources used as raw materials	MJ	1.60582E+01	2.92930E-01	2.60582E+00	2.77428E+00	1.51970E-01	4.47203E+00	6.1
Consumption of non-renewable primary energy resources used as raw materials	MJ	1.12254E+00	3.00600E-02	1.14260E-01	2.59300E-02	1.56300E-02	3.49230E-01	4.4
Total consumption of non-renewable primary energy resources	MJ	1.71807E+01	3.22990E-01	2.72002E+00	2.80210E+00	1.67610E-01	4.82106E+00	6.5
Consumption of secondary materials	kg	3.57100E-02	3.20000E-04	5.44000E-03	1.00400E-02	1.15000E-03	6.98000E-03	3.8
Consumption of renew. secondary fuels	MJ	1.68600E-02	1.00000E-04	4.57000E-03	1.07900E-02	7.02674E-03	4.29000E-03	7.7
Consumption of non-renewable secondary fuels	MJ	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.0
Net consumption of freshwater	m^3	7.73500E-03	4.29019E-05	1.34400E-02	2.70820E-02	2.27811E-03	1.50500E-02	4.5

Table 11. Life cycle assessment (LCA) results of the 1 kg of the averaged wet decorative finishing products Cameleo, CraftClay, Cemmental manu

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2	C
Hazardous waste	kg	6.58750E-01	3.51000E-03	1.41260E-01	2.37300E-02	6.71000E-02	1.03200E-02	3.200
Non-hazardous waste	kg	0.00000E+00	0.00000E+00	2.37300E-02	1.87000E-03	2.60000E-04	8.40000E-04	1.000
Radioactive waste	kg	1.44045E-05	1.02969E-07	9.67862E-07	2.13560E-06	6.41456E-08	4.00617E-06	6.925
Components for re-use	kg	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.000
Materials for recycling	kg	3.16700E-02	3.30000E-04	7.92000E-03	1.81300E-02	1.90000E-04	1.66100E-02	7.900
Materials for energy recovery	kg	7.57435E-06	5.84344E-08	2.03358E-06	6.84776E-06	3.15456E-05	1.92818E-04	3.645
Exported Energy	MJ	9.18000E-03	5.49296E-05	9.14885E-05	3.61109E-05	9.00000E-06	2.00000E-04	0.000