

Statement of Verification

BREG EN EPD No.: 000523 Issue 01

This is to verify that the

Environmental Product Declaration provided by:

HEMPEL A/S

is in accordance with the requirements of:

EN 15804:2012+A2:2019

BRE Global Scheme Document SD207

This declaration is for:

1 kilogram of Topaz WB Primer (283ME) paint

Company Address

HEMPEL A/S Lundtoftegårdsvej 91 DK-2800 Kgs. Lyngby Denmark



25 September 2023

Operator

25 September 2023 Emma Baker

Date of this Issue

24 September 2028

Expiry Date



This Statement of Verification is issued subject to terms and conditions (for details

To check the validity of this statement of verification please, visit www.greenbooklive.com/check or contact us.

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Environmental Product Declaration

EPD Number: 000523

General Information

| EPD Programme Operator | Applicable Product Category Rules |
|--|--|
| BRE Global Watford, Herts WD25 9XX United Kingdom | BRE Environmental Profiles 2013 Product Category Rules for Type III environmental product declaration of construction products to EN 15804+A2 PN 514 Rev 3.0 |
| Commissioner of LCA study | LCA consultant/Tool |
| HEMPEL A/S Lundtoftegårdsvej 91 DK-2800 Kgs. Lyngby Denmark | ITeC - The Catalonia Institute of Construction Technology Wellington 19 - ES08018 Barcelona - Tel +34 933 093 404 www.itec.cat |
| | SimaPro Version 9.1.1 by PRé Sustainability BV. |
| Declared/Functional Unit | Applicability/Coverage |
| 1 kilogram of Topaz WB Primer (283ME) paint | Product Specific |
| EPD Type | Background database |
| Cradle to Gate with Modules C and D | Ecoinvent v3.6 (2019) database CEPE Raw Material database v3.0 |
| Demonstra | tion of Verification |
| CEN standard EN 15 | 5804 serves as the core PCR ^a |
| Independent verification of the declara | ation and data according to EN ISO 14025:2010 ⊠ External |
| | riate ^b)Third party verifier: at Hermon |
| a: Product category rules b: Optional for business-to-business communication; mandatory | for business-to-consumer communication (see EN ISO 14025:2010, 9.4) |

Comparability

Environmental product declarations from different programmes may not be comparable if not compliant with EN 15804:2012+A2:2019. Comparability is further dependent on the specific product category rules, system boundaries and allocations, and background data sources. See Clause 5.3 of EN 15804:2012+A2:2019 for further guidance



Information modules covered

| | | | | | | Use stage | | | | | End-of-life | | | | Benefits and loads beyond | |
|----------------------|-----------|-------------------------|-------------------|--------------------------------|-----|--------------------------------|--------|-------------|---------------|------------------------|-----------------------|------------------------------|-------------------------|-------------------------|------------------------------|--|
| ' | Product | | | Construction | | Related to the building fabric | | | Relat | | End-of-life | | | | the system boundary | |
| A 1 | A2 | А3 | A4 | A5 | B1 | B2 | В3 | B4 | B5 | В6 | B7 | C1 | C2 | C3 | C4 | D |
| Raw materials supply | Transport | Manufacturing | Transport to site | Construction – Installation | Use | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | Deconstruction demolition | Transport | Waste processing | Disposal | Reuse, Recovery and/or Recycling potential |
| V | V | $\overline{\mathbf{V}}$ | | | | | | | | | | $\overline{\mathbf{V}}$ | $\overline{\checkmark}$ | $\overline{\mathbf{V}}$ | $\overline{\mathbf{V}}$ | $\overline{\mathbf{Q}}$ |

Note: Ticks indicate the Information Modules declared.

Manufacturing site(s)

The transport distances were adapted to the factory, specific transport distances for each provider were used for raw material transport. The manufacturing sites included in this EPD are:

Hempel Paints (Saudi Arabia) W.L.L Road Number - 45 2nd Industrial City - South Jeddah Jizan Road - Jeddah Leith Street Kingdom of Saudi Arabia Hempel Paints (Kuwait) K.S.C.C. Shuaiba Western Industrial Area. Plot No-51, Block-2. Al-Ahmadi, 65300. Kuwait.

Hempel Paints (Qatar) W.L.L. Industrial Area, Street #16, Gate no # 212. P.O. Box 3484, Doha. Qatar

Construction Product:

Product Description

This EPD is representative for Topaz WB Primer (283ME).

Topaz WB Primer is a superior-quality water-based acrylic co-polymer-based primer providing excellent alkali resistance, sealing, opacity and binding properties. The declared product provides an excellent white backing for subsequent topcoats. It has excellent penetration into the substrate, hence provides the best adhesion.

Ideal as primer on exterior and interior surfaces like walls, ceilings, partitions, etc, it offers the best protection against alkali attack. This product is also approved under MPI # 3 Category of Alkali resistance Primers.

Technical Information

| Property | Value, Unit |
|------------------|-------------|
| Relative density | 1.5 kg/l |
| Solids by volume | 39 ± 2% |



| Property | Value, Unit | | | | |
|----------------------------|-------------------|--|--|--|--|
| Dry film thickness | 30 - 50 μm | | | | |
| Wet film thickness | 80 - 130 μm | | | | |
| Theoretical spreading rate | 13 – 7.7 m²/l | | | | |
| Coverage | 0.12 – 0.19 kg/m² | | | | |

Product Contents

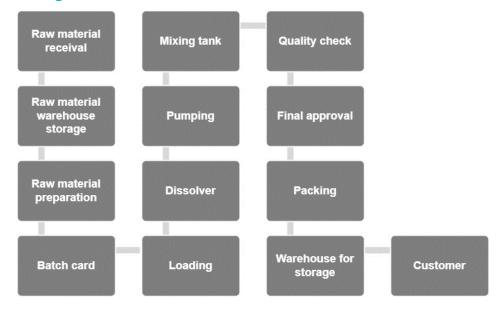
The material composition of the declared mixed product:

| Material/Chemical Input | % |
|-------------------------|---------|
| Water | 25 – 50 |
| Binder | 10 – 25 |
| Filler | 25 – 50 |
| Pigments | < 5 |
| Additives | < 5 |

Manufacturing Process

The manufacturing process for coatings involves combining and mixing multiple chemicals and materials into a homogenous product, which is then packaged and distributed.

Process flow diagram



End of Life

Coatings are typically disposed of with the substrate they are painted on. This can be through recycling, incineration or landfill, but the coating itself is unlikely to be separated from the substrate during the disposal process.



Life Cycle Assessment Calculation Rules

Declared / Functional unit description

1 kilogram of Topaz WB Primer (283ME)

System boundary

The chosen system has been Cradle to Gate with Modules C and D, which means that the Life Cycle Assessment is contemplated from the manufacturing of the paints until they leave the factory, considering the end-of-life stage and the benefits and loads beyond the system boundary.

Data sources, quality and allocation

To carry out this study, the time period October, 2021 - September, 2022 has been considered as the reference year.

The background databases are Ecoinvent v3.6 (2019) Database for the general model and CEPE Raw Material database v3.0 for raw materials. For electricity, the consumption electricity mixes from Ecoinvent v3.6 (2019) of Saudi Arabia (1,02 kgCO2e/kWh), Kuwait (0,831 kgCO2e/kWh) and Qatar (0,524 kgCO2e/kWh) have been used for Hempel's manufacturing sites in Jeddah (Saudi Arabia), Kuwait and Doha (Qatar).

The quality of the data and the uncertainties associated with the inventories of each input are also analysed in accordance to Table E.1 of Annex E - Schemes to be applied for data quality assessment of generic and specific data of the EN 15804:2012+A2:2019 standard.

Cut-off criteria

For the present analysis, more than 99% of the mass and energy inputs and outputs of the system have been considered, leaving out diffuse emissions in the factory and the production of manufacturing infrastructure such as industrial machinery and equipment. On the other hand, those suppliers or manufacturers of raw materials that supply less than 5% of the total raw material consumption have been omitted. The remaining suppliers have been adjusted proportionally to 100% to balance this deficit.



LCA Results

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

| Parameters describing environmental impacts | | | | | | | | | | | |
|---|---|------|--------------------------|----------------|--------------------------|--------------------------|----------------|-----------------------|---|--|--|
| | | | GWP- total | GWP- fossil | GWP- biogenic | GWP- luluc | ODP | АР | EP- freshwate r | | |
| | | | kg CO ₂ eq | kg CO₂ eq | kg CO ₂ eq | kg CO ₂ eq | kg CFC11 eq | mol H ⁺ eq | kg (PO ₄) ³⁻ eq | | |
| | Raw material supply | A1 | AGG | AGG | AGG | AGG | AGG | AGG | AGG | | |
| Product stage | Transport | A2 | AGG | AGG | AGG | AGG | AGG | AGG | AGG | | |
| Product stage | Manufacturing | A3 | AGG | AGG | AGG | AGG | AGG | AGG | AGG | | |
| | Total (of product stage) | A1-3 | 8,81E-01 | 8,81E-01 | -3,21E-05 | 1,62E-04 | 1,07E-07 | 5,67E-03 | 1,62E-04 | | |
| Construction | Transport | A4 | MND | MND | MND | MND | MND | MND | MND | | |
| process stage | Construction | A5 | MND | MND | MND | MND | MND | MND | MND | | |
| | Use | B1 | MND | MND | MND | MND | MND | MND | MND | | |
| | Maintenance | B2 | MND | MND | MND | MND | MND | MND | MND | | |
| | Repair | В3 | MND | MND | MND | MND | MND | MND | MND | | |
| Use stage | Replacement | B4 | MND | MND | MND | MND | MND | MND | MND | | |
| | Refurbishment | B5 | MND | MND | MND | MND | MND | MND | MND | | |
| | Operational energy use | В6 | MND | MND | MND | MND | MND | MND | MND | | |
| | Operational water use | В7 | MND | MND | MND | MND | MND | MND | MND | | |
| | Deconstruction, demolition | C1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| E-1-0% | Transport | C2 | 4,14E-03 | 4.14E-03 | 1.47E-06 | 5.14E-08 | 9.36E-10 | 8.62E-06 | 8.09E-08 | | |
| End of life | Waste processing | СЗ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | Disposal | C4 | 1,14E-01 | 1.14E-01 | 1.20E-04 | 2.16E-06 | 9.54E-10 | 5.01E-05 | 6.47E-07 | | |
| Potential benefits and loads beyond the system boundaries | Reuse, recovery, recycling potential | D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

GWP-total = Global warming potential, total; GWP-fossil = Global warming potential, fossil; GWP-biogenic = Global warming potential, biogenic; GWP-luluc = Global warming potential, land use and land use change;

ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, accumulated exceedance; and EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment



(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

| Parameters | describing e | enviro | nmental | impacts | | | | | <u> </u> |
|---|---|--------|---------------|--------------------|-------------------|----------------------------|-------------------------------|----------------------------|----------------------|
| | | | EP- marine | EP- terrestrial | POCP | ADP- mineral& metals | ADP- fossil | WDP | PM |
| | _ | | kg N eq | mol N eq | kg NMVOC eq | kg Sb eq | MJ, net calorific value | m³ world eq deprived | disease incidence |
| | Raw material supply | A1 | AGG | AGG | AGG | AGG | AGG | AGG | AGG |
| Duadinat atawa | Transport | A2 | AGG | AGG | AGG | AGG | AGG | AGG | AGG |
| Product stage | Manufacturing | А3 | AGG | AGG | AGG | AGG | AGG | AGG | AGG |
| | Total (of product stage) | A1-3 | 9,99E-04 | 8,95E-03 | 2,85E-03 | 2,20E-05 | 1,50E+01 | 1,04E+01 | 6,80E-08 |
| Construction | Transport | A4 | MND | MND | MND | MND | MND | MND | MND |
| process stage | Construction | A5 | MND | MND | MND | MND | MND | MND | MND |
| | Use | B1 | MND | MND | MND | MND | MND | MND | MND |
| | Maintenance | B2 | MND | MND | MND | MND | MND | MND | MND |
| | Repair | В3 | MND | MND | MND | MND | MND | MND | MND |
| Use stage | Replacement | B4 | MND | MND | MND | MND | MND | MND | MND |
| | Refurbishment | B5 | MND | MND | MND | MND | MND | MND | MND |
| | Operational energy use | В6 | MND | MND | MND | MND | MND | MND | MND |
| | Operational water use | В7 | MND | MND | MND | MND | MND | MND | MND |
| | Deconstruction, demolition | C1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Transport | C2 | 1.46E-06 | 1.62E-05 | 5.59E-06 | 1.26E-9 | 5.83E-02 | 1.93E-05 | 2.34E-10 |
| End of life | Waste processing | СЗ | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Disposal | C4 | 2.07E-05 | 2.25E-04 | 8.75E-05 | 2.57E-09 | 7.18E-02 | 1.90E-04 | 1.25E-09 |
| Potential benefits and loads beyond the system boundaries | Reuse, recovery, recycling potential | D | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;

EP-terrestrial = Eutrophication potential, accumulated exceedance;

POCP = Formation potential of tropospheric ozone; ADP-mineral&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Depletion potential of the stratospheric ozone layer; WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and PM = Particulate matter.



(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

| Parameters describing environmental impacts | | | | | | | | | | |
|---|---|------|-------------------------|----------|----------|----------|---------------|--|--|--|
| | | | IRP | ETP-fw | HTP-c | HTP-nc | SQP | | | |
| | | | kBq U ²³⁵ eq | CTUe | CTUh | CTUh | dimensionless | | | |
| Product stage | Raw material supply | A1 | AGG | AGG | AGG | AGG | AGG | | | |
| | Transport | A2 | AGG | AGG | AGG | AGG | AGG | | | |
| | Manufacturing | А3 | AGG | AGG | AGG | AGG | AGG | | | |
| | Total (of product stage) | A1-3 | 1,12E-01 | 3,00E+02 | 1,02E-09 | 6,16E-08 | 7,38E+00 | | | |
| Construction | Transport | A4 | MND | MND | MND | MND | MND | | | |
| process stage | Construction | A5 | MND | MND | MND | MND | MND | | | |
| | Use | B1 | MND | MND | MND | MND | MND | | | |
| | Maintenance | B2 | MND | MND | MND | MND | MND | | | |
| | Repair | В3 | MND | MND | MND | MND | MND | | | |
| Use stage | Replacement | B4 | MND | MND | MND | MND | MND | | | |
| | Refurbishment | B5 | MND | MND | MND | MND | MND | | | |
| | Operational energy use | B6 | MND | MND | MND | MND | MND | | | |
| | Operational water use | B7 | MND | MND | MND | MND | MND | | | |
| | Deconstruction, demolition | C1 | 0 | 0 | 0 | 0 | 0 | | | |
| End of life | Transport | C2 | 2.53E-04 | 2.63E-02 | 3.23E-13 | 3.71E-11 | 2.80E-04 | | | |
| End of life | Waste processing | СЗ | 0 | 0 | 0 | 0 | 0 | | | |
| | Disposal | C4 | 4.07E-04 | 8.31E-02 | 7.28E-12 | 8.55E-11 | 1.75E-01 | | | |
| Potential benefits and loads beyond the system boundaries | Reuse, recovery, recycling potential | D | 0 | 0 | 0 | 0 | 0 | | | |

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; and SQP = Potential soil quality index.



| Parameters | describing r | esoui | ce use, pri | imary ener | gy | | | |
|---|---|-------|-------------|------------|----------|----------|----------|----------|
| | | | PERE | PERM | PERT | PENRE | PENRM | PENRT |
| | | | MJ | MJ | MJ | MJ | MJ | MJ |
| | Raw material supply | A1 | AGG | AGG | AGG | AGG | AGG | AGG |
| Product stage | Transport | A2 | AGG | AGG | AGG | AGG | AGG | AGG |
| r roddol slago | Manufacturing | А3 | AGG | AGG | AGG | AGG | AGG | AGG |
| | Total (of product stage) | A1-3 | 1,41E+00 | 2,93E-02 | 1,43E+00 | 1,61E+01 | 4,38E-02 | 1,61E+01 |
| Construction | Transport | A4 | MND | MND | MND | MND | MND | MND |
| process stage | Construction | A5 | MND | MND | MND | MND | MND | MND |
| | Use | B1 | MND | MND | MND | MND | MND | MND |
| | Maintenance | B2 | MND | MND | MND | MND | MND | MND |
| | Repair | В3 | MND | MND | MND | MND | MND | MND |
| Use stage | Replacement | B4 | MND | MND | MND | MND | MND | MND |
| | Refurbishment | B5 | MND | MND | MND | MND | MND | MND |
| | Operational energy use | B6 | MND | MND | MND | MND | MND | MND |
| | Operational water use | B7 | MND | MND | MND | MND | MND | MND |
| | Deconstruction, demolition | C1 | 0 | 0 | 0 | 0 | 0 | 0 |
| End of life | Transport | C2 | 7.07E-05 | 0 | 7.07E-05 | 6.18E-02 | 0 | 6.18E-02 |
| Ena or me | Waste processing | СЗ | 0 | 0 | 0 | 0 | 0 | 0 |
| | Disposal | C4 | 1.72E-03 | 0 | 1.72E-03 | 7.63E-02 | 0 | 7.63E-02 |
| Potential benefits and loads beyond the system boundaries | Reuse, recovery, recycling potential | D | 0 | 0 | 0 | 0 | 0 | 0 |

PERE = Use of renewable primary energy excluding renewable primary energy 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 resource



| Parameters o | lescribing res | ource | use, secondary n | naterials and fuels | s, use of water | |
|---|---|-------|------------------|---------------------------|---------------------------|----------|
| | | | SM | RSF | NRSF | FW |
| | | | kg | MJ net calorific value | MJ net calorific value | m³ |
| | Raw material supply | A1 | AGG | AGG | AGG | AGG |
| Product stage | Transport | A2 | AGG | AGG | AGG | AGG |
| | Manufacturing | А3 | AGG | AGG | AGG | AGG |
| | Total (of product stage) | A1-3 | 0 | 0 | 0 | 2,39E-01 |
| Construction process stage | Transport | A4 | MND | MND | MND | MND |
| | Construction | A5 | MND | MND | MND | MND |
| | Use | B1 | MND | MND | MND | MND |
| | Maintenance | B2 | MND | MND | MND | MND |
| | Repair | В3 | MND | MND | MND | MND |
| Use stage | Replacement | B4 | MND | MND | MND | MND |
| | Refurbishment | B5 | MND | MND | MND | MND |
| | Operational energy use | В6 | MND | MND | MND | MND |
| | Operational water use | B7 | MND | MND | MND | MND |
| | Deconstruction, demolition | C1 | 0 | 0 | 0 | 0 |
| End of life | Transport | C2 | 0 | 0 | 0 | 1.35E-06 |
| LIIG OF IIIE | Waste processing | СЗ | 0 | 0 | 0 | 0 |
| | Disposal | C4 | 0 | 0 | 0 | 8.95E-06 |
| Potential benefits and loads beyond the system boundaries | Reuse, recovery, recycling potential | D | 0 | 0 | 0 | 0 |

SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water



| Other environmental information describing waste categories | | | | | | | | | |
|---|---|------|----------|----------|----------|--|--|--|--|
| | | | HWD | NHWD | RWD | | | | |
| | | | kg | kg | kg | | | | |
| | Raw material supply | A1 | AGG | AGG | AGG | | | | |
| Product stage | Transport | A2 | AGG | AGG | AGG | | | | |
| Froduct stage | Manufacturing | А3 | AGG | AGG | AGG | | | | |
| | Total (of product stage) | A1-3 | 1,01E-03 | 4,49E-02 | 2,88E-05 | | | | |
| Construction | Transport | A4 | MND | MND | MND | | | | |
| process stage | Construction | A5 | MND | MND | MND | | | | |
| | Use | B1 | MND | MND | MND | | | | |
| | Maintenance | B2 | MND | MND | MND | | | | |
| | Repair | В3 | MND | MND | MND | | | | |
| Use stage | Replacement | B4 | MND | MND | MND | | | | |
| | Refurbishment | B5 | MND | MND | MND | | | | |
| | Operational energy use | В6 | MND | MND | MND | | | | |
| | Operational water use | B7 | MND | MND | MND | | | | |
| | Deconstructio n, demolition | C1 | 0 | 0 | 0 | | | | |
| End of life | Transport | C2 | 1.57E-07 | 1.58E-05 | 4.13E-07 | | | | |
| Lifu of life | Waste processing | СЗ | 0 | 0 | 0 | | | | |
| | Disposal | C4 | 1.51E-07 | 1.00E+00 | 4.46E-07 | | | | |
| Potential benefits and loads beyond the system boundaries | Reuse, recovery, recycling potential | D | 0 | 0 | 0 | | | | |

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed



| Other envi | ronmental ir | nform | nation descr | ibing output | : flows – at e | end of life | | |
|--|---|----------|--------------|--------------|----------------|--------------------------|---------------------------------|-----------------------------------|
| | | | CRU | MFR | MER | EE | Biogenic carbon (product) | Biogenic carbon (packaging) |
| | | | kg | kg | kg | MJ per energy carrier | kg C | kg C |
| | Raw material supply | A1 | AGG | AGG | AGG | AGG | AGG | AGG |
| Product stage | Transport | A2 | AGG | AGG | AGG | AGG | AGG | AGG |
| | Manufacturing | А3 | AGG | AGG | AGG | AGG | AGG | AGG |
| | Total (of product stage) | A1 -3 | 0 | 2,61E-03 | 0 | 0 | 0 | 0 |
| Construction | Transport | A4 | MND | MND | MND | MND | MND | MND |
| stage | Construction | A5 | MND | MND | MND | MND | MND | MND |
| | Use | B1 | MND | MND | MND | MND | MND | MND |
| | Maintenance | B2 | MND | MND | MND | MND | MND | MND |
| | Repair | В3 | MND | MND | MND | MND | MND | MND |
| Use stage | Replacement | B4 | MND | MND | MND | MND | MND | MND |
| | Refurbishment | B5 | MND | MND | MND | MND | MND | MND |
| | Operational energy use | В6 | MND | MND | MND | MND | MND | MND |
| | Operational water use | B7 | MND | MND | MND | MND | MND | MND |
| | Deconstructio n, demolition | C1 | 0 | 0 | 0 | 0 | 0 | 0 |
| End of life | Transport | C2 | 0 | 0 | 0 | 0 | 0 | 0 |
| End of life | Waste processing | C3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Disposal | C4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Potential benefits and loads beyond the system | Reuse, recovery, recycling potential | D | 0 | 0 | 0 | 0 | 0 | 0 |

CRU = Components for reuse; MFR = Materials for recycling MER = Materials for energy recovery; EE = Exported Energy



Scenarios and additional technical information

| Scenarios and additional technical information | | | |
|--|--|-------|----------|
| Scenario | Parameter | Units | Results |
| A4 – Transport to the building site | Module not declared | | |
| A5 – Installation in the building | Module not declared | | |
| B2 – Maintenance | Module not declared | | |
| B3 – Repair | Module not declared | | |
| B4 – Replacement | Module not declared | | |
| B5 – Refurbishment | Module not declared | | |
| Reference service life | Module not declared | | |
| B6 – Use of energy; B7 – Use of water | Module not declared | | |
| C1 to C4 End of life, | Waste for final disposal: Landfill | % | 100 |
| | Transport to waste processing: Truck, fuel consumption | kgkm | 3.66E-05 |
| | Transport to waste processing: Distance | km | 30 |
| | Transport to waste processing: Capacity utilisation | % | 85 |
| Module D | Module declared | | |



Interpretation

The results displayed in Figure 1 apply to 1 kilogram of Topaz WB Primer (283ME) paint. It illustrates the relative contributions of the different modules assessed to various environmental impact categories and to primary energy use. Most impacts relate to the raw materials that compose the paint (included in Module A1-A3).

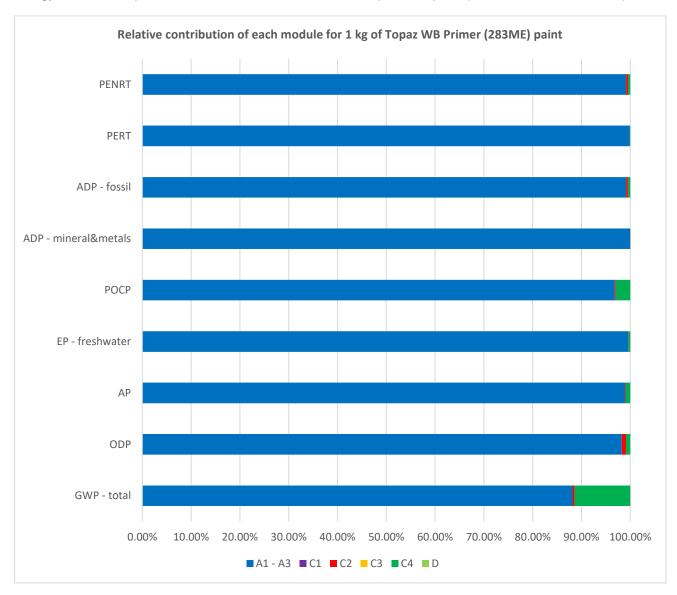


Figure 1: Relative contribution of each module for 1 kilogram of Topaz WB Primer (283ME) paint.

Raw material manufacturing and transport (30.56%), packaging (69.35%) and consumption (0.09%) account for the total of the use of renewable primary energy resources (PERT). The manufacturing of raw materials and its transport (69.78%) has the greatest impact on the use of non-renewable primary energy resources (PENRT), while the impact of the production process (due to fuel consumption and product packaging) measures 30.22%. The pre-product manufacturing (raw materials and its distribution) is the main contributor in all impact categories for Module A1-A3 with an average of 74%.



References

BSI. Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products. BS EN 15804:2012+A2:2019. London, BSI, 2019.

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