BALDINI VERNICI

ENVIRONMENTAL PRODUCT DECLARATION

SYNUIL SILVER ACT

SANITISING WALL PAINT



Registration: S-P-05081

Publication date: 2022/07/25

Valid until: 2027/07/25 Programme: The International EPD® System www.environdec.com Programme Operator: EPD International AB





CLOWOLOGA

The Cromology Group was founded in 2015, at the end of a decades-long transformation process that began in the late 1990s, when Lafarge Peintures created the Specialty Materials division that was later Materis Paints and quickly became a player on the global and emerging markets.

Today, Cromology retains that pioneering spirit of its Dutch origins in the 1700s, confirming itself as a solid, worldwide group and a leader in Southern Europe, with a presence in 50 countries, and a global annual turnover of more than 600 mln/€. The group's strength is expressed through its 3700 employees including 100 researchers and highly specialised technicians - 9 production sites and 5 R&D laboratories.

Cromology's brands are marketed in over 50 countries worldwide, with a direct presence in 8 countries. In each market, Cromology's brands are an expression of its history, professionalism and capacity for innovation. 20% of the turnover is generated by new products.

Cromology Italia believes in a multi-channel strategy diversified by brand, range of services and type of customer: from designers to professional applicators and private customers with an offer of 7 specialised brands, Cromology holds 7% of the Italian market, an absolute leadership position.

With headquarters in Porcari, in the province of Lucca, the company counts on two state-of-the-art production sites of 80,000 square metres, a 45,000 square metre logistics hub and the cooperation throughout Italy of 400 collaborators, including head office staff and a sales network. With its own brand portfolio and a wide range of products and services, Cromology's aim is to be a trusted partner alongside customers, professionals and private individuals, in order to achieve professional excellence together.







BELGIUM

8 COUNTRIES WITH DIRECT PRESENCE

OUR PRODUCTS ARE MARKETED IN 50 COUNTRIES

FRANCE

LUXEMBURG

SWITZERLAND

ITALY



TURKEY





PORTUGAL

SPAIN

MOROCCO







logistics hubs





SUSTAINABILITY

CROMOLOGY'S SUSTAINABILITY

WE ARE COMMITTED TO EVERY OPERATIONAL PHASE

The Cromology Group's approach to sustainability stems from its Mission: to responsibly protect and colour homes to improve everyone's life.

Cromology places Corporate Social Responsibility (CSR) at the heart of its strategy, at the same level as profitable growth and operational excellence. With a view to continuous improvement, Cromology integrates its CSR objectives into business development and new product launches.

Cromology's CSR approach relates to the Sustainable Development Goals (SDGs) defined by the United Nations. Cromology has identified the 5 SDGs most relevant to its activities and on the basis of these is committed to responsible and sustainable development in order to maximise the value generated for customers, employees, shareholders, suppliers, civil society and local communities.

SUSTAINABLE DEVELOPMENT















ENVIRONMENTAL RESPONSIBILITY

To minimise the impact of activities on the environment.



Innovation for offering colours and paints that are increasingly more respectful of the environment and health of users.

SOCIAL RESPONSIBILITY

To ensure the health and safety for its employees; enabling everyone to evolve: fostering the highest standard of integrity and compliance with the regulations in force.

PRODUCT SAFETY AND LIABILITY



INDOOR AIR QUALITY



HACCP HYGIENE-HEALTHCARE PREVENTION PROTOCOL



ISO 9001:2015 QUALITY MANAGEMENT SYSTEM



UNI EN 15457 ANTI-MOULD EFFICACY

UNI EN 15458 ANTI-ALGAE EFFICACY



ISO 22196 **BACTERIOSTATIC** CERTIFICATE SILVER ACT **TECHNOLOGY**

ENVIRONMENTAL RESPONSIBILITY



ISO 14001:2015 **ENVIRONMENTAL PROTECTION** IN INDUSTRIAL PRODUCTION **PROCESSES**



ENVIRONMENTAL PRODUCT DECLARATION



FCOLABEL

100% GREEN ENERGY CERTIFICATION

SOCIAL RESPONSIBILITY



ISO 45001:2018 OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM

DLGS 231/2001 CORPORATE ADMINISTRATIVE LIABILITY

CSR



ENVIRONMENTAL DECLARATION

EPD PROGRAMME GENERAL INFORMATION

| EPD PROGRAMME | The International EPD® System - www.environdec.com |
|---------------------------------|---|
| | • |
| EPD PROGRAMME OPERATOR | EPD International AB Box 210 60, SE-100 31 Stockholm, Sweden. |
| PRODUCT CATEGORY RULES (PCR) | International EPD System - PCR 2019:14 - "Construction products" - Version 1.11 EN 15804:2012+A2:2019 - "Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products." |
| EPD DRAFTED BY | Leyton Italia s.r.l |
| DECLARATION HOLDER | Dr. Marco Demi Cromology Italia S.p.A. |
| CHECKED BY | Guido Croce |
| GEOGRAPHICAL REFERENCE | International |
| EPD REGISTRATION NUMBER | S-P-05081 |
| EXPIRY DATE | 25/07/2027 |
| PUBLICATION DATE | 25/07/2022 |
| PRODUCT DESCRIPTION | Synuil Silver Act - Sanitising wall paint |
| APPLICATION SCOPE | The LCA analysis was conducted according to the ISO 14025, ISO 14040, ISO 14044 and EN15804 standards. Both process–specific data and data from the Ecoinvent 3.6 database were used. The methods for calculating and assessing the impacts were used as defined in 2019 EN 15804 2012+A2:2019. The LCA study covers the production phases of raw materials and energy; transport of materials; production at the company's sites; and the end of life of the material. |



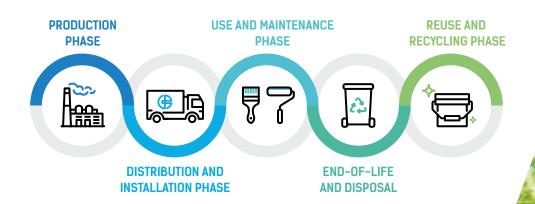
The abbreviation EPD stands for Environmental Product Declaration and is a document in which the environmental performance of a product is described in the form of standardised and objective data.

It makes it possible to analyse and quantify how much energy and natural resources are used by production and distribution processes, how much CO, is emitted into the atmosphere, what materials are used for packaging and how much waste is generated.

In the field of construction, the EPD is an essential basis for professionals such as architects and designers when it comes to the overall planning and evaluation of interventions. As the validation of the EPD must be performed by recognised Certification Bodies, it represents an important act of transparency and accountability for the market.

EPDs, created on a voluntary basis, must be prepared with reference to the LCA (Life Cycle Assessment) which is an analytical and systematic methodology that assesses the environmental significance of a product or service throughout its entire life cycle. LCA is the methodology that serves as the technical basis for a wide range of possible actions aimed at increasing the sustainability of products, as it helps to understand the impact generated towards the environment by products. The PCR (Product Category Rules) contain the rules for conducting the LCA, which must also comply with the international standard EN 15804 for construction products.

This EPD refers to SYNUIL SILVER ACT- Sanitising Wall Paint by Baldini Vernici.





THE BALDINI VERNICI BRAND

MISSION

Baldini Vernici is a flexible and dynamic company with consolidated experience.

Present on the market since 1974, it proposes a complete offer oriented to low environmental impact and sustainable development.

Baldini Vernici was among the first brands in the sector to obtain the Ecolabel.

Baldini Vernici's strategy is oriented towards the creation of an offer of paint systems with high quality standards and solutions that respect environmental requirements and the health of those who apply the products and spend time on the premises.

Its range, which is constantly being renewed and diversified, is aimed at both the 'do-it-yourself' consumer and the professional.



A+ CERTIFICATE



ANTI-MOULD EFFICACY



THE BALDINI VERNICI BRAND



ANTI-MOULD EFFICACY



SILVER ACT TECNOLOGY





HACCP CERTIFICATE



SYNUIL SILVER ACT

This Environmental Product Declaration (EPD) refers to Synuil Silver Act, the water-based wall paint based on silver ions (Silver Act Technology) with tested efficacy against bacterial proliferation (ISO 22196). Stainable, sanitised and resistant to frequent washing with non-abrasive detergents and disinfectants.

COMPLIANT WITH THE HACCP STANDARD

The product is suitable for use in environments where foodstuffs are present according to UNI 11021:2002. Ideal for high traffic areas where maximum hygiene is required.







| ALTH-CARE CILITIES | TECHNICAL DATA | METHOD | MAIN DATA AT 20 | °C AND 60% R.H. |
|-----------------------|--------------------|------------|------------------------|-------------------------|
| | IEGHNICAL DAIA | MEIHOD | SYNUIL SILVER ACT MATT | SYNUIL SILVER ACT GLOSS |
| | Contrast ratio | M.U. 1631 | 97 Good | 97 Good |
| | Kubelka-Munk yield | ISO 6504-1 | >8 m²/ Lt | >8 m²/Lt |
| | Washability | ISO 11998 | Class 1 | Class 1 |
| | Dirt trap △L | UNI 10792 | < 3 Very low | < 3 Very low |

WASHABLE WITH

DISINFECTANTS

> IDEAL FOR

HEA FACI



| Packaging Volume | PP [kg/kg] | Iron [kg/kg] | Paper [kg/kg] | LDPE [kg/kg] | Wood [kg/kg] |
|---------------------|----------------------|------------------------|------------------|-----------------|------------------------|
| 1 L | 0.00E+00 | 1.12E-01 | 1.18E-02 | 8.66E-03 | 5.91E-02 |
| 5 L | 3.97E-02 | 0.00E+00 | 4.72E-04 | 2.20E-03 | 7.87E-02 |
| 10 L | 4.06E-02 | 0.00E+00 | 2.36E-04 | 1.10E-03 | 8.94E-02 |

| SYNUIL SILVER ACT MATT: PSBIE360006 | | | | | | | | |
|-------------------------------------|------|--|--|--|--|--|--|--|
| Emulsions | < 40 | | | | | | | |
| Additives | < 10 | | | | | | | |
| Loads | < 35 | | | | | | | |
| Water | < 40 | | | | | | | |

| Packaging Volume | PP [kg/kg] | iron [kg/kg] | Paper [kg/kg] | LDPE [kg/kg] | Wood [kg/kg] |
|---------------------|----------------------|------------------------|------------------|------------------------|------------------------|
| 1 L | 0.00E+00 | 1.15E-01 | 1.21E-02 | 8.91E-03 | 6.07E-02 |
| 5 L | 4.08E-02 | 0.00E+00 | 4.86E-04 | 2.27E-03 | 8.10E-02 |
| 10 L | 4.17E-02 | 3.16E-03 | 2.43E-04 | 1.13E-03 | 9.20E-02 |

| SYNUIL SILVER ACT GLOSS: PSBIE370006 | | | | | | | | | |
|--------------------------------------|------|--|--|--|--|--|--|--|--|
| Emulsions | < 60 | | | | | | | | |
| Additives | < 10 | | | | | | | | |
| Loads | < 30 | | | | | | | | |
| Water | < 25 | | | | | | | | |

ENVIRONMENTAL DECLARATION PROCESS

DECLARED UNIT:

For this EPD, in accordance with the reference standards, the concept of "declared unit" is used instead of "functional unit".

The declared unit is the quantity of product required to produce $1\ \mathrm{kg}$ of finished product.

REFERENCE YEAR:

The data used refer to the calendar year 2020. Study carried out in 2021.

SYSTEM BOUNDARIES:

This EPD is of the "cradle to gate with options" type and includes forms A1 (Raw Materials), A2 (Transport), A3 (Production), C1 (Total/Partial Demolition), C2 (Transport to Landfill/Recovery Centre), C3 (Recovery/Reuse Process), C4 (Landfill) and D (Recovery/Reuse Potential).

| | | | l | (+) | | 5 | | | | | | 7 | | £2 | | | |
|--|---------------|-----------------|------------|----------------------------|-----------------------|-----|-------------|---------|-------------|------------|------------|----------|---------------------------------|---|------------------|----------|-------------------------------|
| JI VERNICI | | ODUCTI PHASE | | | JTIONE & ION PHASE | | USE A | ND MA | INTEN | ANCE | PHASE | | | ND-OF- SPOSAL | | | REUSE & RECYCLING PHASE |
| BALDINI VERNICI SYNUL SILVER SCI SYNUL SILVER SCI SUNDICI SILVER SCI S | Raw Materials | Transport | Production | Transport | Installation | Use | Maintenance | Repairs | Replacement | Renovation | Energy use | Wateruse | Demolition (total / partial) | Transport (landfill / recovery centre) | Recovery / reuse | Landfill | Recovery / reuse potential |
| Forms | Al | A2 | A3 | A4 | A5 | Bl | B2 | В3 | B4 | B5 | В6 | B7 | Cl | C2 | C3 | C4 | D |
| Declaration forms | χ | Х | Χ | Х | ND | ND | ND | ND | ND | ND | ND | ND | Х | Χ | Х | Х | Х |
| Geography | EU | ı | I | _ | - | - | - | - | - | - | - | - | EU | EU | EU | EU | EU |
| Specific data | | | | >90% | | - | - | - | - | - | - | - | - | - | - | - | - |
| Variables | | fı | | than +10% product group |) | - | - | - | - | - | - | - | - | _ | - | - | _ |
| Site variations | | | No | t relevant | | - | - | - | - | - | - | - | - | - | - | - | - |

ENVIRONMENTAL PERFORMANCE

SYNUIL SILVER ACT MATT

ENVIRONMENTAL CALCULATION SIMULATION

| Impact category | Unit | A1 - A3 | C1 | C2 - C4 | D |
|--------------------------------|--------------|----------|----------|----------|----------|
| GWP | kg CO₂ eq | 7.47E+00 | 0.00E+00 | 9.53E-01 | 0.00E+00 |
| > GWP - Fossil | kg CO₂ eq | 7.40E+00 | 0.00E+00 | 4.29E-02 | 0.00E+00 |
| > GWP - Biogenic | kg CO₂ eq | 3.80E-02 | 0.00E+00 | 9.10E-01 | 0.00E+00 |
| > GWP - Land use and LU change | kg CO₂ eq | 2.78E-02 | 0.00E+00 | 5.84E-06 | 0.00E+00 |
| ODP | kg CFC11 eq | 5.08E-06 | 0.00E+00 | 5.14E-09 | 0.00E+00 |
| RP | kBq U-235 eq | 6.31E-01 | 0.00E+00 | 1.69E-03 | 0.00E+00 |
| POCP | kg NMVOC eq | 3.51E-02 | 0.00E+00 | 2.40E-03 | 0.00E+00 |
| PM | disease inc. | 4.52E-07 | 0.00E+00 | 2.64E-08 | 0.00E+00 |
| HTP, non-cancer | CTUh | 1.91E-07 | 0.00E+00 | 3.79E-08 | 0.00E+00 |
| HTP, cancer | CTUh | 3.54E-08 | 0.00E+00 | 6.97E-09 | 0.00E+00 |
| ДР | mol H+ eq | 3.42E-02 | 0.00E+00 | 9.50E-04 | 0.00E+00 |
| EP, freshwater | kg P eq | 2.59E-03 | 0.00E+00 | 4.60E-06 | 0.00E+00 |
| EP, marine | kg N eq | 8.52E-03 | 0.00E+00 | 4.62E-04 | 0.00E+00 |
| EP, terrestrial | mol N eq | 8.23E-02 | 0.00E+00 | 5.02E-03 | 0.00E+00 |
| ETP, freshwater | CTUe | 1.83E+02 | 0.00E+00 | 2.95E+00 | 0.00E+00 |
| > ETP, freshwater - organics | CTUe | 5.29E+00 | 0.00E+00 | 3.86E-01 | 0.00E+00 |
| > ETP, freshwater - inorganics | CTUe | 3.17E+01 | 0.00E+00 | 8.47E-02 | 0.00E+00 |
| > ETP, freshwater - metals | CTUe | 1.46E+02 | 0.00E+00 | 2.48E+00 | 0.00E+00 |
| LUP | Pt | 2.14E+03 | 0.00E+00 | 4.46E-01 | 0.00E+00 |
| WDP | m³ depriv. | 2.71E+00 | 0.00E+00 | 7.47E-03 | 0.00E+00 |
| RUP, fossils | MJ | 1.08E+02 | 0.00E+00 | 3.45E-01 | 0.00E+00 |
| RUP, minerals and metals | kg Sb eq | 3.31E-05 | 0.00E+00 | 5.91E-08 | 0.00E+00 |
| HTP, non-cancer - organics | CTUh | 4.64E-09 | 0.00E+00 | 1.00E-09 | 0.00E+00 |
| HTP, non-cancer - inorganics | CTUh | 1.13E-07 | 0.00E+00 | 2.28E-08 | 0.00E+00 |
| HTP, non-cancer - metals | CTUh | 7.42E-08 | 0.00E+00 | 1.40E-08 | 0.00E+00 |
| HTP, cancer – organics | CTUh | 8.91E-09 | 0.00E+00 | 6.82E-09 | 0.00E+00 |
| HTP, cancer - inorganics | CTUh | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| HTP, cancer - metals | CTUh | 2.65E-08 | 0.00E+00 | 1.43E-10 | 0.00E+00 |

RESOURCE CONSUMPTION

* The results in kg PO4 eq. can be obtained by multiplying the results in kg P eq. by a conversion factor of 3.07.

| Impact Category | Unit | A1 - A3 | C1 | C2 - C4 | D |
|-----------------|-------------|----------|----------|----------|----------|
| PENRT | MJ | 1.16E+02 | 0.00E+00 | 3.67E-01 | 0.00E+00 |
| PENRM | MJ | 1.02E+01 | 0.00E+00 | 1.02E+01 | 0.00E+00 |
| PENRE | MJ | 3.46E-02 | 0.00E+00 | 4.81E-06 | 0.00E+00 |
| PERT | MJ | 3.96E+02 | 0.00E+00 | 3.91E-03 | 0.00E+00 |
| PERM | MJ | 3.93E+02 | 0.00E+00 | 1.12E-03 | 0.00E+00 |
| PERE | MJ | 3.76E+00 | 0.00E+00 | 2.79E-03 | 0.00E+00 |
| ODP | kg CFC11 eq | 5.08E-06 | 0.00E+00 | 5.14E-09 | 0.00E+00 |
| WDP | m^3 | 2.71E+00 | 0.00E+00 | 2.74E+00 | 0.00E+00 |

WASTE

| Impact Category | Unit | A1 - A3 | C1 | C2 - C4 | D |
|-----------------|-----------------------|----------|----------|----------|----------|
| HWD | kg | 2.36E-04 | 0.00E+00 | 5.50E-03 | 0.00E+00 |
| NWHD | kg | 2.21E+00 | 0.00E+00 | 1.01E+00 | 0.00E+00 |
| RWD | kg | 3.27E-04 | 0.00E+00 | 2.32E-06 | 0.00E+00 |
| CRU | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| MFR | kg | 0.00E+00 | 0.00E+00 | 4.11E-01 | 0.00E+00 |
| MER | kg | 0.00E+00 | 0.00E+00 | 6.52E-01 | 0.00E+00 |
| EE | MJ per energy carrier | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

IPCC INDICATOR

| Impact Category | Unit | A1 - A3 | C1 | C2 - C4 | D |
|-----------------|-----------|----------|----------|----------|----------|
| GWP-GHG | Kg CO₂ EQ | 7.18E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 |

ENVIRONMENTAL PERFORMANCE

SYNUIL SILVER ACT GLOSS

ENVIRONMENTAL CALCULATION SIMULATION

| Impact category | Unit | A1 - A3 | C1 | C2 - C4 | D |
|--------------------------------|--------------|----------|----------|----------|----------|
| GWP | kg CO₂ eq | 4.82E+00 | 0.00E+00 | 9.43E-01 | 0.00E+00 |
| > GWP - Fossil | kg CO₂ eq | 4.78E+00 | 0.00E+00 | 3.28E-02 | 0.00E+00 |
| > GWP - Biogenic | kg CO₂ eq | 9.69E-03 | 0.00E+00 | 9.10E-01 | 0.00E+00 |
| > GWP - Land use and LU change | kg CO₂ eq | 2.71E-02 | 0.00E+00 | 2.69E-06 | 0.00E+00 |
| ODP | kg CFC11 eq | 8.48E-06 | 0.00E+00 | 2.11E-09 | 0.00E+00 |
| IRP | kBq U-235 eq | 4.88E-01 | 0.00E+00 | 7.08E-04 | 0.00E+00 |
| POCP | kg NMVOC eq | 2.73E-02 | 0.00E+00 | 2.33E-03 | 0.00E+00 |
| PM | disease inc. | 3.48E-07 | 0.00E+00 | 2.52E-08 | 0.00E+00 |
| HTP, non-cancer | CTUh | 1.30E-07 | 0.00E+00 | 3.78E-08 | 0.00E+00 |
| HTP, cancer | CTUh | 3.42E-08 | 0.00E+00 | 6.96E-09 | 0.00E+00 |
| AP | mol H+ eq | 2.40E-02 | 0.00E+00 | 8.88E-04 | 0.00E+00 |
| EP, freshwater | kg P eq | 2.04E-03 | 0.00E+00 | 3.82E-06 | 0.00E+00 |
| EP, marine | kg N eq | 6.66E-03 | 0.00E+00 | 4.42E-04 | 0.00E+00 |
| EP, terrestrial | mol N eq | 6.38E-02 | 0.00E+00 | 4.80E-03 | 0.00E+00 |
| ETP, freshwater | CTUe | 1.46E+02 | 0.00E+00 | 2.81E+00 | 0.00E+00 |
| > ETP, freshwater - organics | CTUe | 6.68E+00 | 0.00E+00 | 3.74E-01 | 0.00E+00 |
| > ETP, freshwater - inorganics | CTUe | 3.12E+01 | 0.00E+00 | 4.69E-02 | 0.00E+00 |
| > ETP, freshwater - metals | CTUe | 1.09E+02 | 0.00E+00 | 2.39E+00 | 0.00E+00 |
| LUP | Pt | 2.14E+03 | 0.00E+00 | 1.50E-01 | 0.00E+00 |
| WDP | m³ depriv. | 1.69E+00 | 0.00E+00 | 2.27E-03 | 0.00E+00 |
| RUP, fossils | MJ | 6.58E+01 | 0.00E+00 | 1.41E-01 | 0.00E+00 |
| RUP, minerals and metals | kg Sb eq | 2.70E-05 | 0.00E+00 | 2.79E-08 | 0.00E+00 |
| HTP, non-cancer - organics | CTUh | 3.22E-09 | 0.00E+00 | 9.95E-10 | 0.00E+00 |
| HTP, non-cancer - inorganics | CTUh | 7.04E-08 | 0.00E+00 | 2.28E-08 | 0.00E+00 |
| HTP, non-cancer - metals | CTUh | 5.64E-08 | 0.00E+00 | 1.40E-08 | 0.00E+00 |
| HTP, cancer - organics | CTUh | 9.23E-09 | 0.00E+00 | 6.82E-09 | 0.00E+00 |
| HTP, cancer - inorganics | CTUh | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| HTP, cancer - metals | CTUh | 2.49E-08 | 0.00E+00 | 1.40E-10 | 0.00E+00 |

RESOURCE CONSUMPTION

* The results in kg PO4 eq. can be obtained by multiplying the results in kg P eq. by a conversion factor of 3.07.

| Impact Category | Unit | A1 - A3 | C1 | C2 - C4 | D |
|-----------------|-------------|----------|----------|----------|----------|
| PENRT | MJ | 6.99E+01 | 0.00E+00 | 1.50E-01 | 0.00E+00 |
| PENRM | MJ | 6.86E+00 | 0.00E+00 | 6.86E+00 | 0.00E+00 |
| PENRE | MJ | 3.44E-02 | 0.00E+00 | 2.31E-06 | 0.00E+00 |
| PERT | MJ | 3.95E+02 | 0.00E+00 | 1.75E-03 | 0.00E+00 |
| PERM | MJ | 3.92E+02 | 0.00E+00 | 4.91E-04 | 0.00E+00 |
| PERE | MJ | 2.95E+00 | 0.00E+00 | 1.26E-03 | 0.00E+00 |
| ODP | kg CFC11 eq | 8.48E-06 | 0.00E+00 | 2.11E-09 | 0.00E+00 |
| WDP | m³ | 1.69E+00 | 0.00E+00 | 1.72E+00 | 0.00E+00 |

WASTE

| Impact Category | Unit | A1 - A3 | C1 | C2 - C4 | D |
|-----------------|-----------------------|----------|----------|----------|----------|
| HWD | kg | 2.22E-04 | 0.00E+00 | 5.50E-03 | 0.00E+00 |
| NWHD | kg | 1.83E+00 | 0.00E+00 | 2.52E-01 | 0.00E+00 |
| RWD | kg | 2.60E-04 | 0.00E+00 | 9.50E-07 | 0.00E+00 |
| CRU | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| MFR | kg | 0.00E+00 | 0.00E+00 | 4.11E-01 | 0.00E+00 |
| MER | kg | 0.00E+00 | 0.00E+00 | 6.52E-01 | 0.00E+00 |
| EE | MJ per energy carrier | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

IPCC INDICATOR

| Impact Category | Unit | A1 - A3 | C1 | C2 - C4 | D |
|-----------------|-----------|----------|----|----------|----------|
| GWP-GHG | Kg CO₂ EQ | 4.67E+00 | | 1.19E-01 | 0.00E+00 |

ADDITIONAL INFORMATION

GREEN PUBLIC PROCUREMENT (GPP)

Minimum Environmental Criteria (MEC) for Constructions. Minimum Environmental Criteria (MEC) are issued by the Ministry of the Environment and concern specific purchase categories.

They provide "environmental considerations", linked to the different phases of tender procedures (subject of the contract, technical specifications, rewarding technical characteristics linked to the most economically advantageous tender, contract execution conditions) aimed at qualifying, from an environmental point of view, both supplies and procurements throughout the entire life cycle of the service/

THE PAINT PRODUCT COMPLIES WITH THE MEC BUILDING REGULATIONS IF IT MEETS THE TECHNICAL SPECIFICATIONS

1. EMISSION LIMITS

product.

The manufacturer of Paints and Varnishes must present documentation proving compliance with the emission limits indicated in the table, verified by measuring the emissions of its products.

This documentation will consist, for example, of a test report carried out by a third-party laboratory or, if the company has suitable instrumentation, in-house laboratory tests.

2.3 3 Technical specifications of the building* 2.3.5.5 Material emission*

| EMISSION LIMIT (µm²) | |
|---|------------------------------|
| Benzene Trichloroethylene (trichloroethylene) di-2-ethylhexylphthalate (DEHP) Dibutyl phthalate (DBP) | 1 (for each substance) |
| Total VOCs (22) | 1500 |
| Formaldehyde | <60 |
| Acetaldehyde | <300 |
| Toluene | <450 |
| Tetrachloroethylene | <350 |
| Xylene | <300 |
| 1,2,4-Trimethylbenzene | <1500 |
| 1,4-dichlorobenzene | <90 |
| Ethylbenzene | <1000 |
| 2-Butoxyethanol | <1500 |
| Styrene | <350 |

2. HAZARDOUS SUBSTANCES

The manufacturer of paints and varnishes must submit a declaration of conformity of the legal representative, accompanied by the Safety Data Sheet (SDS) of the product. In the event of substances with such classifications not appearing in the SDS, the SDS itself is sufficient documentation to demonstrate compliance with the specific criterion.

2.4.1.3 Hazardous substances*

None of the following must be added intentionally to the components, parts or materials used:

- Cadmium, lead, chromium VI, mercury, arsenic and selenium additives in concentrations exceeding 0.010% by weight.
- Substances identified as "Substances of Very High Concern" (SVHCs) according to Article 59 of Regulation (EC) No 1907/2006 at a concentration greater than 0.10% w/w;
- Substances or mixtures classified or classifiable with the following hazard statements:
- as carcinogenic, mutagenic or toxic for reproduction in category 1A,
 1B or 2 (H340, H350, H350i, H360, H360F, H360D, H360FD, H360Fd, H360Df,
 H341, H351, H361f, H361d, H361fd, H362);
- for acute oral, dermal, inhalation toxicity in category 1, 2 or 3 (H300, H301, H310, H311, H330, H331);
- as dangerous to the aquatic environment in category 1, 2 (H400, H410, H411);
- as having specific target organ toxicity category 1 and 2 (H370, H371, H372, H373).

3. POSSESSION OF THE ECOLABEL OR EOUIVALENT

The manufacturer of Paints and Varnishes must present documentation declaring possession of the Ecolabel or an equivalent label. Alternatively, it may present a type III environmental declaration (i.e. an EPD – Environmental Product Declaration).

2.4 Technical specifications of building components*

2.4.2 Specific criteria for building components*

2.4.2.11 Paints and Varnishes*

Paint products must comply with the ecological and performance criteria of Decision 2014/312/EU2 as amended, on the awarding of the EU Ecolabel for paint products.

Verification: the designer shall prescribe that in the procurement phase the contractor shall ensure compliance with the criterion by using products bearing either:

- the EU Ecolabel or equivalent;
- a Type III environmental declaration in accordance with EN 15804 and ISO 14025

demonstrating compliance with this criterion. This can be verified if the environmental declaration contains the specific information related to the criteria contained in the above–mentioned decisions. Evidence of compliance with this criterion must be submitted to the contracting authority during the execution of the works, in the manner specified in the relevant specifications.



ACRONYMS

ENVIRONMENTAL IMPACT

ADP: abiotic resource depletion potential;

AP: acidification potential;

EP: eutrophication potential;

GWP: global warming potential;

ODP: stratospheric ozone depletion potential; POCP: tropospheric ozone creation potential;

WDP: water deprivation potential.

RESOURCE CONSUMPTION

PERT: total use of renewable primary energy resources;

PERM: use of renewable primary energy resources used as raw materials;

PERE: use of renewable primary energy excluding renewable primary energy used as raw

materials;

PENRT: total use of non-renewable primary energy resources;

PENRM: use of non-renewable primary energy resources used as raw materials;

PENRE: use of non-renewable primary energy excluding non-renewable primary

energy used as raw materials;

SM: use of secondary material;

RSF: use of renewable secondary fuels;

NRSF: use of non-renewable secondary fuels;

FWT: total use of water.

WASTE PRODUCTION

HWD: hazardous waste disposed of;

NHWD: non-hazardous waste disposed of;

RWD: radioactive waste disposed of;

CRU: components for reuse;

MFR: materials for recycling;

MER: materials for energy recovery;

EE: exported energy;

IRP: ionising radiation;

PM: particulate matter;

HTP: human toxicity;

ETP: ecotoxicity potential;

LUP: land use potential;

RUP: resource use potential.

VERIFICATION AND REGISTRATION

ISO standard ISO 21930 and CEN standard EN 15804 serves as the core Product Category Rules (PCR)

Product Category Rules (PCR):

PCR 2019:14 Construction products, version 1.11

(PCR) review was conducted by: The Technical Committee of the International EPD 9 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

Indipendent third-party verification of the declaration and data, according to ISO 14025:2006:

 \boxtimes External \square Internal

covering

Third-party verifer:

Guido Croce

Procedure for follow-up during EPD validity involves third party verifier.

 \square Yes \boxtimes No

The holder of the EPD has ownership and responsibility for the declaration.

CPC CODE: 3511 paints, varnishes and related products

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LDINI VERNICI & BALDINI VERNICI

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Registered office: Via IV Novembre, 4 55016 Porcari (LU) – Italy Tel. 199 119955 – Fax 199 119977 www.baldinivernici.it

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