



# **PAINTLAC**

WALL PAINT



THE INTERNATIONAL EPD® SYSTEM

EPD in accordance with ISO 14025:2010  
and EN 15804:2012+A2:2019

Registration number:  
S-P-03254

Publication date:  
2022/07/29

Valid until:  
2027/07/29

Programme:  
The International EPD® System  
[www.environdec.com](http://www.environdec.com)

Programme Operator:  
EPD International AB

## 1. CROMOLOGY GROUP

cromology  
the art of professional painting



Cromology was founded in 2015, after a decades-long process of transformation started in the late 90's, when Lafarge Peintures created the Specialty Materials which then became Materis Paints. It quickly became a global player in the emerging markets.

Nowadays Cromology keeps that pioneering spirit of its Dutch origin from the 1700, proving to be a solid worldwide group, leader in the south basin of Europe, present in 50 countries with a global annual revenue of more than 600 mln/€. The strength of the group lies in its 3700 employees – of which 100 between researchers and highly dedicated technicals – 9 production facilities and 5 R&D laboratories.

Cromology brands are marketed in more than 50 countries all over the world, with direct presence in 8 countries. In each market, Cromology commercial brands are an expression of the history, professionalism and capacity for innovation. 20% of the revenue comes from new products.

Cromology Italy believes in a multi-channel strategy diversified by brand, range of services and type of customer: from designer to professional applicator and private customer. With an offer of 7 specialized brands, Cromology holds 7% of the Italian market having so an absolute leading position.

Headquarters are in Porcari, in the province of Lucca. The company has two cutting-edge production facilities of 80.000 mq, a logistic hub of 45.000 mq and can rely on 400 employees between in-house staff and sales network. With its brands and wide range of products, Cromology wants to be a trusted partner for his customers and professionals, aiming to reach together professional excellence.



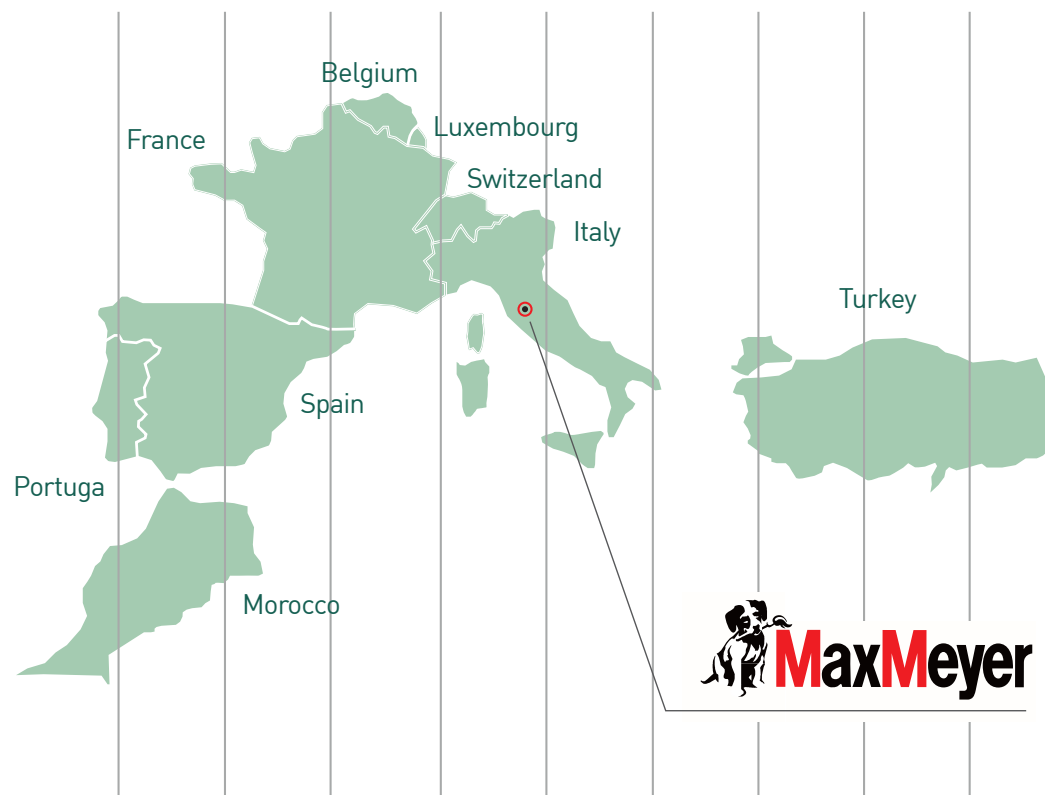
3.700  
employees



9  
production  
facilities



20%  
of sales coming from  
new products



8  
Countries with  
direct presence



600  
mln/€ global  
annual revenue



50  
countries where  
our products  
are sold



5  
R&D  
laboratories



7  
Logistic  
hubs



100  
researchers

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## 2. SUSTAINABILITY

### OUR COMMITMENT IN EVERY OPERATIONAL PHASE

Cromology Groups' approach to sustainability raises from our Mission: **protecting and colouring responsibly every home to improve everyone's life.**

**Cromology puts RSI at the core of its strategy**, at the same level of profitable growth and operational excellence. In a perspective of continuous improvement, Cromology includes its RSI targets in the development of its business as well as in the launch of new products.

**Cromology's approach to RSI relates to United Nations' GDS. Cromology has identified 5 most relevant GDS for its business** and relies on these to create a sustainable and responsible development in order to maximize value for clients, employees, shareholders, suppliers, civil society and local communities.

### 5 MOST RELEVANT GDS FOR CROMOLOGY BUSINESS



### 1 PRODUCT SAFETY AND LIABILITY



INDOOR AIR QUALITY



HACCP - HAZARD ANALYSIS AND CRITICAL CONTROL POINTS



ISO 9001:2015 QUALITY MANAGEMENT SYSTEM

UNI EN 15457  
ANTI-MOULD EFFICACY

UNI EN 15458  
ANTI-ALGAE EFFICACY

ISO 22196 ANTIBACTERIAL  
TEST CERTIFICATE

### 2 ENVIRONMENTAL LIABILITY

ENVIRONMENTAL LIABILITY

Minimize the impact of the activities on the environment



### 2 ENVIRONMENTAL RESPONSIBILITY



ISO 14001:2015 ENVIRONMENTAL MANAGEMENT SYSTEM IN MANUFACTURING PROCESS



ENVIRONMENTAL PRODUCT DECLARATION



ECOLABEL

100% GREEN ENERGY  
CERTIFICATION

### 3 SOCIAL RESPONSIBILITY

SOCIAL RESPONSIBILITY

Guarantee health and safety to its employees; give anyone the opportunity to evolve; promote high standards of integrity and compliance to current regulations

### 3 SOCIAL RESPONSIBILITY



ISO 45001:2018 OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM

LEGISLATIVE DECREE  
NO. 231/2001  
ADMINISTRATIVE LIABILITY OF COMPANIES

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### 3. GENERAL INFORMATION

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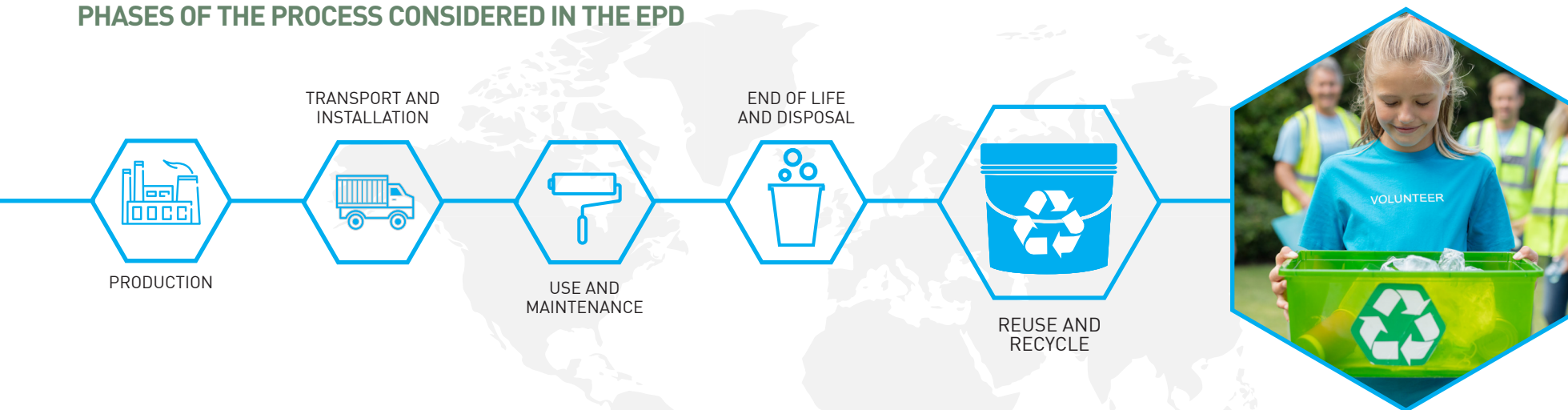
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## EPD PROGRAMME GENERAL INFORMATION

|                              |   |
|------------------------------|---|
| EPD programme                | The International EPD® System - <a href="http://www.environdec.com">www.environdec.com</a>  |
| 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 developed from           | Leyton Italia s.r.l   |
| Owner of the declaration     | Dr. Marco Demi Cromology Italia S.p.A.  |
| Verified from                | Guido Croce   |
| Geographical reference       | International   |
| EPD Reg. No.                 | S-P-03254   |
| Publication date             | 2022/07/29  |
| Expiration date              | 2027/07/29  |
| Product description          | PAINTLAC Bacteriostatic Sanitising Paint  |
| Scope                        | LCA analysis has been carried out according to ISO 14025, ISO 14040, ISO 14044 and EN1584 standards. Both specific data of the manufacturing process and Ecoinvent 3.6 database have been used. As calculation and evaluation methods of the impacts have been used those in the EN 15804 2012+A2:2019 standard. LCA analysis covers the phases of extraction and transport of raw material and energy; manufacturing; end of life of the material. |



### PHASES OF THE PROCESS CONSIDERED IN THE EPD



**EPD<sup>®</sup>**

THE INTERNATIONAL EPD<sup>®</sup> SYSTEM



EPD abbreviation comes from the English term **Environmental Product Declaration** and it is a verified and registered document that communicates transparent and comparable information about the life-cycle environmental impact of products. It analyses and quantifies how much energy and natural resources are used in production and transportation, how much CO<sub>2</sub> is emitted, what materials are used for packaging and the quantity of waste generated.

In the construction field, **EPD is a must for professional architects and designers** when they need to plan and evaluate what actions need to be taken. As EPD must be validated by International Standards, it represents a fundamental act of transparency and liability towards the market.

Where the EPD is the final report, created on a voluntary basis, its foundation is a **lifecycle assessment (LCA)** - the factual and standardized analysis methodology of a product's or service's entire life cycle in terms of sustainability. **LCA is a technical basis for a wide range of possible actions oriented to improve products sustainability**, as it helps to understand the impact generated by a product on the environment. PCR - Product Category Rules provides the instructions for how the life-cycle assessment (LCA) should be conducted, which must also comply with EN 15084 construction products international standard. This EPD regards Max Meyer **PAINTLAC WALL PAINT**.



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### MISSION

The **mission of the MaxMeyer** brand is to focus on products that are sustainable, **innovative and improve the comfort** of our homes.

The products reflect **MaxMeyer's mission** statement that the home integrates with the landscape, is environmentally sustainable and a place where one should feel safe.



The MaxMeyer products:



have a **low VOC content** and are certified A+ for the emission of volatile substances in indoor air, according to Decree No. 2011-321 of 23 March 2011 (French VOC regulation).



**are packed in recycled plastic or recyclable steel packaging** to effectively reduce plastic consumption.



are "Comfortable" in that they **simplify the user's life**, thanks to features such as anti-drip, rapid drying, and resistance to bacteria.

The 'Respect Health, Respect the Planet' logo has been registered by the Italian Patent and Trademark Office of the Ministry of Economic Development as a trademark since 06/08/2019 (No. 302019000058242).

# PAINTLAC

This Environmental Product Declaration EPD refers to Paintlac, the wall paint available in gloss, satin and matt acrylic-based finishes that is odourless, resistant to frequent washing and easy to maintain. Ideal for highly frequented environments where maximum cleanliness is required, Paintlac is suitable for use in food-intensive environments in accordance with HACCP regulation UNI 11021:2002 and high durability.

## MAIN CHARACTERISTICS

- Easy to clean
- Resistant to frequent washing for a longer film life
- Odourless
- Bright, clean colours
- Ideal for high-traffic environments where maximum cleanliness is required (hospitals, educational institutions, home environments)
- Suitable for use in environments where food is present according to HACCP regulation UNI 11021:2002



## PRODUCT CHEMICAL COMPOSITION



### GLOSS

|           |       |
|-----------|-------|
| Emulsions | < 60% |
| Additives | < 10% |
| Loads     | < 30% |
| Water     | < 25% |



### MATT

|           |       |
|-----------|-------|
| Emulsions | < 40% |
| Additives | < 10% |
| Loads     | < 35% |
| Water     | < 40% |



### SATINED

|           |       |
|-----------|-------|
| Emulsions | < 50% |
| Additives | < 10% |
| Loads     | < 35% |
| Water     | < 30% |

|    |   |
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## 6.THE PAINTLAC PRODUCT

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### PACKAGING



| Type of packaging   | PP [kg/kg] | Iron [kg/kg] | Paper [kg/kg] | LDPE [kg/kg] | Wood [kg/kg] |
|---------------------|------------|--------------|---------------|--------------|--------------|
| PAINTLAC GLOSS 1 L  | 6.72E-02   | 0.00E+00     | 2.43E-03      | 8.91E-03     | 6.07E-02     |
| PAINTLAC GLOSS 5 L  | 4.74E-02   | 0.00E+00     | 4.86E-04      | 2.27E-03     | 8.10E-02     |
| PAINTLAC GLOSS 10 L | 4.17E-02   | 3.16E-03     | 2.43E-04      | 1.13E-03     | 9.20E-02     |

| Type of packaging  | PP [kg/kg] | Iron [kg/kg] | Paper [kg/kg] | LDPE [kg/kg] | Wood [kg/kg] |
|--------------------|------------|--------------|---------------|--------------|--------------|
| PAINTLAC MATT 1 L  | 6.54E-02   | 0.00E+00     | 2.36E-03      | 8.66E-03     | 5.91E-02     |
| PAINTLAC MATT 5 L  | 4.61E-02   | 0.00E+00     | 4.72E-04      | 2.20E-03     | 7.87E-02     |
| PAINTLAC MATT 10 L | 4.06E-02   | 0.00E+00     | 2.36E-04      | 1.10E-03     | 8.94E-02     |

| Type of packaging     | PP [kg/kg] | Iron [kg/kg] | Paper [kg/kg] | LDPE [kg/kg] | Wood [kg/kg] |
|-----------------------|------------|--------------|---------------|--------------|--------------|
| PAINTLAC SATINED 1 L  | 6.61E-02   | 0.00E+00     | 2.39E-03      | 8.76E-03     | 5.98E-02     |
| PAINTLAC SATINED 5 L  | 4.67E-02   | 0.00E+00     | 4.78E-04      | 2.23E-03     | 7.97E-02     |
| PAINTLAC SATINED 10 L | 4.10E-02   | 3.11E-03     | 2.39E-04      | 1.12E-03     | 9.05E-02     |

### TECHNICAL DATA

|                    |            | PAINTLAC LUCID               | PAINTLAC MATT                | PAINTLAC SATINED             |
|--------------------|------------|------------------------------|------------------------------|------------------------------|
| TECHNICAL DATA     | METHOD     | MAIN DATA AT 20°C & 60% R.H. | MAIN DATA AT 20°C & 60% R.H. | MAIN DATA AT 20°C & 60% R.H. |
| Contrast ratio     | M.U. 1631  | 97                           | 97                           | 97                           |
|                    |            | Good                         | Good                         | Good                         |
| Kubelka-Munk Yield | ISO 6504-1 | > 8 m2/Lt                    | > 8 m2/Lt                    | > 8 m2/Lt                    |
| Washability        | ISO 11998  | Class 1                      | Class 1                      | Class 1                      |
| Dirt trap          | UNI 10792  | < 3                          | < 3                          | < 3                          |
| ΔL                 |            | Very low                     | Very low                     | Very low                     |

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## 7. ENVIRONMENTAL PRODUCT DECLARATION

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### DECLARED UNIT

This EPD uses the concept of «**declared unit**» instead of «functional unit» according to current regulations.

### REFERENCE YEAR

The data used refer to the calendar years 2019-2020. Study was conducted 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 (Landfill/Recovery Transport), C3 (Recovery/Reuse Process), C4 (Landfill) and D (Recovery/Reuse Potential).



|                      | PRODUCTION STAGE                          |           |               | CONSTRUCTION AND INSTALLATION STAGE |                                      | USE AND MAINTENANCE STAGE |             |        |             |               |                        |                       | END OF LIFE AND WASTE STAGE |           |                  |          | REUSE AND RECYCLE STAGE                |
|----------------------|---|-----------|---------------|-------------------------------------|--------------------------------------|---------------------------|-------------|--------|-------------|---------------|------------------------|-----------------------|-----------------------------|-----------|------------------|----------|--|
|                      | Raw material supply                       | Transport | Manufacturing | Transport                           | Construction installation processing | Use                       | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-contruction demolition   | Transport | Waste processing | Disposal | Reuse - Recovery Recycling - Potential |
| Modules              | A1  | A2        | A3            | A4                                  | A5                                   | B1                        | B2          | B3     | B4          | B5            | B6                     | B7                    | C1                          | C2        | C3               | C4       | D                                      |
| Modules declared     | X   | X         | X             | X                                   | ND                                   | ND                        | ND          | ND     | ND          | ND            | ND                     | ND                    | X                           | X         | X                | X        | X                                      |
| Geography            | EU  | I         | I             | -                                   | -                                    | -                         | -           | -      | -           | -             | -                      | -                     | EU                          | EU        | EU               | EU       | EU                                     |
| Specific data        | >90%                                      |           |               |                                     |                                      | -                         | -           | -      | -           | -             | -                      | -                     | -                           | -         | -                | -        | -                                      |
| Variation - products | Less than 10% for every group of products |           |               |                                     |                                      | -                         | -           | -      | -           | -             | -                      | -                     | -                           | -         | -                | -        | -                                      |
| Variation - sites    | Not relevant                              |           |               |                                     |                                      | -                         | -           | -      | -           | -             | -                      | -                     | -                           | -         | -                | -        | -                                      |

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### RESOURCE CONSUMPTION - PAINTLAC GLOSS

| EN15804+A2 INDICATORS        |                       |          |          |          |          |
|------------------------------|-----------------------|----------|----------|----------|----------|
| Impact category              | Unit                  | A1 - A3  | C1       | C2 - C4  | D        |
| <b>GWP TOTAL:</b>            | kg CO <sub>2</sub> eq | 4,82E+00 | 0,00E+00 | 9,43E-01 | 0,00E+00 |
| GWP - Fossil                 | kg CO <sub>2</sub> eq | 4,78E+00 | 0,00E+00 | 3,28E-02 | 0,00E+00 |
| GWP - Biogenic               | kg CO <sub>2</sub> eq | 9,69E-03 | 0,00E+00 | 9,10E-01 | 0,00E+00 |
| GWP - Land use and LU change | kg CO <sub>2</sub> 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 TOTAL        | 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 |

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## RESOURCE CONSUMPTION - PAINTLAC GLOSS

\* Results in kg PO<sub>4</sub> eq. can be obtained by multiplying 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 |
| Ozone depletion        | kg CFC11 eq | 5,08E-06 | 0,00E+00 | 5,14E-09 | 0,00E+00 |
| Net use of fresh water | m3          | 2,71E+00 | 0,00E+00 | 2,74E+00 | 0,00E+00 |



## WASTE - PAINTLAC GLOSS

| Impact category               | Unit                  | A1-A3    | C1       | C2-C4    | D        |
|-------------------------------|-----------------------|----------|----------|----------|----------|
| Hazardous waste disposed      | KG                    | 2,36E-04 | 0,00E+00 | 5,50E-03 | 0,00E+00 |
| Non- hazardous waste disposed | kg                    | 2,21E+00 | 0,00E+00 | 1,01E+00 | 0,00E+00 |
| Radioactive waste disposed    | kg                    | 3,27E-04 | 0,00E+00 | 2,32E-06 | 0,00E+00 |
| Components for re-use         | kg                    | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for recycling       | kg                    | 0,00E+00 | 0,00E+00 | 4,11E-01 | 0,00E+00 |
| Materials for energy recovery | kg                    | 0,00E+00 | 0,00E+00 | 6,52E-01 | 0,00E+00 |
| Exported energy               | MJ per energy carrier | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |



## IPCC INDICATOR - PAINTLAC GLOSS

| Impact category | Unit                  | A1-A3    | C1       | C2-C4    | D        |
|-----------------|-----------------------|----------|----------|----------|----------|
| GWP-GHG         | kg CO <sub>2</sub> eq | 7,18E+00 | 0,00E+00 | 1,29E-01 | 0,00E+00 |

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### RESOURCE CONSUMPTION - PAINTLAC MATT

| EN15804+A2 INDICATORS        |                       |          |          |          |          |
|------------------------------|-----------------------|----------|----------|----------|----------|
| Impact category              | Unit                  | A1 - A3  | C1       | C2 - C4  | D        |
| <b>GWP TOTAL:</b>            | kg CO <sub>2</sub> eq | 7,47E+00 | 0,00E+00 | 9,53E-01 | 0,00E+00 |
| GWP - Fossil                 | kg CO <sub>2</sub> eq | 7,40E+00 | 0,00E+00 | 4,29E-02 | 0,00E+00 |
| GWP - Biogenic               | kg CO <sub>2</sub> eq | 3,80E-02 | 0,00E+00 | 9,10E-01 | 0,00E+00 |
| GWP - Land use and LU change | kg CO <sub>2</sub> 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 |
| IRP                          | 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 |
| AP                           | 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 TOTAL        | 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 |

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## RESOURCE CONSUMPTION - PAINTLAC MATT

\* Results in kg PO<sub>4</sub> eq. can be obtained by multiplying 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 |
| Ozone depletion        | kg CFC11 eq    | 5,08E-06 | 0,00E+00 | 5,14E-09 | 0,00E+00 |
| Net use of fresh water | m <sup>3</sup> | 2,71E+00 | 0,00E+00 | 2,74E+00 | 0,00E+00 |



## WASTE - PAINTLAC MATT

| Impact category               | Unit                  | A1-A3    | C1       | C2-C4    | D        |
|-------------------------------|-----------------------|----------|----------|----------|----------|
| Hazardous waste disposed      | KG                    | 2,36E-04 | 0,00E+00 | 5,50E-03 | 0,00E+00 |
| Non- hazardous waste disposed | kg                    | 2,21E+00 | 0,00E+00 | 1,01E+00 | 0,00E+00 |
| Radioactive waste disposed    | kg                    | 3,27E-04 | 0,00E+00 | 2,32E-06 | 0,00E+00 |
| Components for re-use         | kg                    | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for recycling       | kg                    | 0,00E+00 | 0,00E+00 | 4,11E-01 | 0,00E+00 |
| Materials for energy recovery | kg                    | 0,00E+00 | 0,00E+00 | 6,52E-01 | 0,00E+00 |
| Exported energy               | MJ per energy carrier | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |



## IPCC INDICATOR - PAINTLAC MATT

| Impact category | Unit                  | A1-A3    | C1       | C2-C4    | D        |
|-----------------|-----------------------|----------|----------|----------|----------|
| GWP-GHG         | kg CO <sub>2</sub> eq | 7,18E+00 | 0,00E+00 | 1,29E-01 | 0,00E+00 |

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## 8. ENVIRONMENTAL PERFORMANCE

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### RESOURCE CONSUMPTION - PAINTLAC SATINED

| EN15804+A2 INDICATORS        |                        |          |          |          |          |
|------------------------------|------------------------|----------|----------|----------|----------|
| Impact category              | Unit                   | A1 - A3  | C1       | C2 - C4  | D        |
| <b>GWP TOTAL:</b>            | kg CO <sub>2</sub> eq  | 6,70E+00 | 0,00E+00 | 9,53E-01 | 0,00E+00 |
| GWP - Fossil                 | kg CO <sub>2</sub> eq  | 6,63E+00 | 0,00E+00 | 4,23E-02 | 0,00E+00 |
| GWP - Biogenic               | kg CO <sub>2</sub> eq  | 4,63E-02 | 0,00E+00 | 9,10E-01 | 0,00E+00 |
| GWP - Land use and LU change | kg CO <sub>2</sub> eq  | 2,84E-02 | 0,00E+00 | 5,64E-06 | 0,00E+00 |
| ODP                          | kg CFC11 eq            | 6,84E-06 | 0,00E+00 | 4,95E-09 | 0,00E+00 |
| IRP                          | kBq U-235 eq           | 7,32E-01 | 0,00E+00 | 1,63E-03 | 0,00E+00 |
| POCP                         | kg NMVOC eq            | 3,42E-02 | 0,00E+00 | 2,40E-03 | 0,00E+00 |
| PM                           | disease inc.           | 4,27E-07 | 0,00E+00 | 2,63E-08 | 0,00E+00 |
| HTP, non-cancer              | CTUh                   | 2,07E-07 | 0,00E+00 | 3,79E-08 | 0,00E+00 |
| HTP, cancer                  | CTUh                   | 3,61E-08 | 0,00E+00 | 6,97E-09 | 0,00E+00 |
| AP                           | mol H+ eq              | 3,35E-02 | 0,00E+00 | 9,46E-04 | 0,00E+00 |
| EP, freshwater               | kg P eq                | 2,86E-03 | 0,00E+00 | 4,55E-06 | 0,00E+00 |
| EP, marine                   | KG N EQ                | 8,41E-03 | 0,00E+00 | 4,61E-04 | 0,00E+00 |
| EP, terrestrial              | mol N eq               | 8,16E-02 | 0,00E+00 | 5,01E-03 | 0,00E+00 |
| ETP, freshwater TOTAL        | CTUe                   | 1,73E+02 | 0,00E+00 | 2,94E+00 | 0,00E+00 |
| ETP, freshwater - organics   | CTUe                   | 5,26E+00 | 0,00E+00 | 3,85E-01 | 0,00E+00 |
| ETP, freshwater - inorganics | CTUe                   | 3,34E+01 | 0,00E+00 | 8,23E-02 | 0,00E+00 |
| ETP, freshwater - metals     | CTUe                   | 1,35E+02 | 0,00E+00 | 2,48E+00 | 0,00E+00 |
| LUP                          | Pt                     | 2,15E+03 | 0,00E+00 | 4,27E-01 | 0,00E+00 |
| WDP                          | m <sup>3</sup> depriv. | 2,52E+00 | 0,00E+00 | 7,14E-03 | 0,00E+00 |
| RUP, fossils                 | MJ                     | 9,45E+01 | 0,00E+00 | 3,33E-01 | 0,00E+00 |
| RUP, minerals and metals     | kg Sb eq               | 4,25E-05 | 0,00E+00 | 5,71E-08 | 0,00E+00 |
| HTP, non-cancer - organics   | CTUh                   | 4,31E-09 | 0,00E+00 | 1,00E-09 | 0,00E+00 |
| HTP, non-cancer - inorganics | CTUh                   | 1,33E-07 | 0,00E+00 | 2,28E-08 | 0,00E+00 |
| HTP, non-cancer - metals     | CTUh                   | 7,04E-08 | 0,00E+00 | 1,40E-08 | 0,00E+00 |
| HTP, cancer - organics       | CTUh                   | 9,02E-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                   | 2,71E-08 | 0,00E+00 | 1,42E-10 | 0,00E+00 |

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## RESOURCE CONSUMPTION - PAINTLAC SATINED

\* Results in kg PO<sub>4</sub> eq. can be obtained by multiplying results in kg P eq by a conversion factor of 3.07

| Impact category        | Unit           | A1-A3    | C1       | C2-C4    | D        |
|------------------------|----------------|----------|----------|----------|----------|
| PENRT                  | MJ             | 1,00E+02 | 0,00E+00 | 3,53E-01 | 0,00E+00 |
| PENRM                  | MJ             | 1,06E+01 | 0,00E+00 | 1,06E+01 | 0,00E+00 |
| PENRE                  | MJ             | 3,47E-02 | 0,00E+00 | 4,65E-06 | 0,00E+00 |
| PERT                   | MJ             | 3,97E+02 | 0,00E+00 | 3,77E-03 | 0,00E+00 |
| PERM                   | MJ             | 3,93E+02 | 0,00E+00 | 1,08E-03 | 0,00E+00 |
| PERE                   | MJ             | 4,28E+00 | 0,00E+00 | 2,69E-03 | 0,00E+00 |
| Ozone depletion        | kg CFC11 eq    | 6,84E-06 | 0,00E+00 | 4,95E-09 | 0,00E+00 |
| Net use of fresh water | m <sup>3</sup> | 2,52E+00 | 0,00E+00 | 2,54E+00 | 0,00E+00 |



## WASTE - PAINTLAC SATINED

| Impact category               | Unit                  | A1-A3    | C1       | C2-C4    | D        |
|-------------------------------|-----------------------|----------|----------|----------|----------|
| Hazardous waste disposed      | KG                    | 2,41E-04 | 0,00E+00 | 5,50E-03 | 0,00E+00 |
| Non- hazardous waste disposed | kg                    | 2,31E+00 | 0,00E+00 | 9,58E-01 | 0,00E+00 |
| Radioactive waste disposed    | kg                    | 3,66E-04 | 0,00E+00 | 2,23E-06 | 0,00E+00 |
| Components for re-use         | kg                    | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for recycling       | kg                    | 0,00E+00 | 0,00E+00 | 4,11E-01 | 0,00E+00 |
| Materials for energy recovery | kg                    | 0,00E+00 | 0,00E+00 | 6,52E-01 | 0,00E+00 |
| Exported energy               | MJ per energy carrier | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |



## IPCC INDICATOR - PAINTLAC SATINED

| Impact category | Unit                  | A1-A3    | C1       | C2-C4    | D        |
|-----------------|-----------------------|----------|----------|----------|----------|
| GWP-GHG         | kg CO <sub>2</sub> eq | 6,43E+00 | 0,00E+00 | 1,29E-01 | 0,00E+00 |

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## GREEN PUBLIC PROCUREMENT (GPP) – BUILDING MINIMUM ENVIRONMENTAL CRITERIA (MEC)

### REQUIREMENTS FOR PAINT AND VARNISH PRODUCERS

**MEC are issued by the Ministry of the Environment and are established for multiple product categories.** They provide «environmental considerations» linked to the different stages of the bidding (subject of the contract, technical specifications, rewarding technical features linked to the most convenient offer, execution of tasks) aimed to qualify, from the environmental point of view, both supplies and awarding through the entire product/service lifecycle.

## PAINT PRODUCTS MUST MEET THESE TECHNICAL SPECIFICATIONS TO COMPLY WITH BUILDING MEC

### 1. EMISSION LIMITS

Paints and varnishes **producer must prove compliance with emission limits in table below providing documentary evidence** by verifying through measurements their products' emissions.

#### 2.3 Technical specifications of the building\*

##### 2.3.5.5 Materials' emission\*

| EMISSION LIMIT ( $\mu\text{m}^2$ )   |                        |
|--|------------------------|
| Benzene Trichloroethylene<br>2-ethylhexyl phthalate(DEHP)<br>Dibutyl phthalate (DBP) | 1 (for each substance) |
| Total VOC (22)   | 1500                   |
| Formaldehyde   | <60                    |
| Acetaldehyde   | <300                   |
| Toluene  | <450                   |
| tetrachloroethylene  | <350                   |
| xylene   | <300                   |
| 1,2,4-trimethylbenzene   | <1500                  |
| 1,4-dichlorobenzene  | <90                    |
| Ethylbenzene   | <1000                  |
| 2-dibutoxyethanol  | <1500                  |
| Styrene  | <350                   |

### 2. HAZARDOUS SUBSTANCES

Paints and varnishes producer **must show statement of compliance of the legal representative, accompanied by the Material Safety Data Sheet (MSDS)** of the product. Whether there are no hazardous substances in MSDS, the Sheet itself is the documentation that proves compliance.

#### 2.4.1.3 Hazardous substances

*In components, parts or material used must not be added intentionally:*

- additives based on cadmium, lead, chrome VI, mercury, arsenic and selenium in concentrations above 0.010% by weight.
- substances identified as "substance of very high concern" (SVHCs) pursuant to Article 59 of the EC Regulation No 1907/2006 in concentrations above 0.10% by weight.
- Substances or mixtures classified or classifiable under the following hazard statements:
  - carcinogenic, mutagenic or toxic for reproduction of category 1A, 1B or 2 [seguono varie sigle]; (H340, H350, H350i, H360, H360F, H360D, H360FD, H360Fd, H360Df, H341, H351, H361f, H361d, H361fd, H362);
  - High oral, dermal, oxygen toxicity of category 1, 2 or 3 (H300, H301, H310, H311, H330, H331);
  - Marine hazard of category 1,2 (H400, H410, H411);
  - Having organ specific toxic effect of category 1 and 2 (H370, H371, H372, H373).

### 3. OWNING OF AN ECOLABEL TRADEMARK OR EQUIVALENT

Paints and varnishes producer **must show documentation about the owning of an Ecolabel or equivalent trademark.** The producer can alternatively show an EPD type III.

#### 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 ecological and performance criteria pursuant to 2014/312/UE2 decision as subsequently amended for the award of the EU Ecolabel for indoor and outdoor paints and varnishes.*

*Verification: the designer must require the contractor to make sure, during the equipment procurement phase, about the compliance with this criteria using products that alternatively have:*

- EU Ecolabel or an equivalent trademark
- EPD type III, conforming with UNI EN 15804 and ISO 14025 which shows compliance to this criteria. This can be verified in the EPD: specific information about criteria contained in the above-mentioned decisions must be present.

*Documentation must be submitted to the contracting authority during implantation of Works, as indicated in the contract documents.*



### ACRONYMS

#### ENVIRONMENTAL IMPACTS

**ADP** = abiotic depletion potential  
**AP** = acidification potential  
**EP** = eutrophierung potential  
**GWP** = global warming potential  
**ODP** = ozone depletion potential  
**POCP** = Photochemical Ozone Creation Potential  
**WDP** = water deprivation potential  
**IRP** = ionising radiation  
**PM** = particulate matter  
**HTP** = human toxicity  
**ETP** = ecotoxicity potential  
**LUP** = land use potential  
**RUP** = resource use potential

#### MATERIAL CONSUMPTION

**PERT** = Primary energy renewable – total  
**PERM** = Primary energy renewable – material  
**PERE** = Primary energy renewable - energy resources  
**PENRT** = Total use of non renewable primary energy resources  
**PENRM** = non renewable primary energy resources used as raw materials  
**PENRE** = Use of non-renewable primary energy resources excluding non-renewable energy resources used as raw materials  
**SM** = secondary material  
**RSF** = renewable secondary fuels  
**NRSF** = non-renewable secondary fuels  
**FWT** = Total water consumption

#### PRODUZIONE RIFIUTI

**HWD** = hazardous waste disposed  
**NHWD** = non-hazardous waste disposed  
**RWD** = radioactive waste disposed  
**CRU** = customer reusable units  
**MFR** = Materiali per il riciclaggio;  
**MER** = materials for recycling  
**EE** = exported energy

### VERIFICATION AND VALIDATION

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® System.  
 See [www.environdec.com/TC](http://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 Secretarian [www.environdec.com/contact](http://www.environdec.com/contact)

Independent third-party verification of the declaration and data, according to ISO 14025:2006:  
☒ External ☐ Internal covering  
☒ EPD process certification ☐ EPD verification

Third-party verifier:  
 Guido Croce

Procedure for follow-up during EPD validity involves third party verifier.  
☐ Yes ☒ No

EPD owner has the property and the responsibility of the declaration.

CPC CODE: 3511 Paints and varnishes and related products

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