

Environmental Product Declaration

according to ISO 14025 and EN 15804



This declaration is for:

DULUX TRADE HERITAGE MATT

Provided by:

AkzoNobel Decorative Paints



program operator

Stichting MRPI®

publisher

Stichting MRPI®

www.mrpi.nl

MRPI® registration

1.1.00287.2022

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20-04-2027





COMPANY INFORMATION



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PRODUCT

DULUX TRADE HERITAGE MATT

DECLARED UNIT/FUNCTIONAL UNIT

All impacts are calculated using the declared unit
"decoration of 1 m² of surface"

DESCRIPTION OF PRODUCT

Dulux Heritage Velvet Matt is a luxury washable matt emulsion. It's formulated with premium quality pigments to guarantee excellent depth of colour and with specially blended clays for effortless application, and an irresistible soft to touch finish.

VISUAL PRODUCT



MRPI® REGISTRATION

1.1.00287.2022

DATE OF ISSUE

20-04-2022

EXPIRY DATE

20-04-2027

SCOPE OF DECLARATION

This MRPI®-EPD certificate is verified by **ing. Kamiel Jansen, Aveco de Bondt**.

The LCA study has been done by **Joanna Zhuravlova & Mart van Assem, Ecomatters**.

The certificate is based on an LCA-dossier according to ISO14025 and EN15804+A1. It is verified according to the 'MRPI®-EPD verification protocol November 2020.v4.0'. EPDs of construction products may not be comparable if they do not comply with EN15804+A1. Declaration of SVHC that are listed on the 'Candidate List of Substances of Very High Concern for authorisation' when content exceeds the limits for registration with ECHA.

MORE INFORMATION

<https://www.duluxheritage.co.uk/products/dulux-heritage-velvet-matt>

PROGRAM OPERATOR

Stichting MRPI®
Kingsfordweg 151
1043GR
Amsterdam

ir. J-P den Hollander, Managing director MRPI®

DEMONSTRATION OF VERIFICATION

CEN standard EN15804 serves as the core PCR[a]

Independent verification of the declaration and data,
according to EN ISO 14025:2010:
internal: external: X

Third party verifier:

ing. Kamiel Jansen, Aveco de Bondt

[a] PCR = Product Category Rules

DETAILED PRODUCT DESCRIPTION

Dulux Heritage Velvet Matt is a luxury washable matt emulsion. It is formulated with premium quality pigments to guarantee excellent depth of colour and with specially blended clays for effortless application, and an irresistible soft to touch finish.

Suitable for all normal interior walls and ceilings In conditions subject to very frequent heavy condensation (e.g. some kitchens and bathrooms). Dulux Trade Diamond Eggshell is more suitable.

Application Method

Brush, roller. As with other water-based paints, do not apply at temperatures below 7C (as recommended by British Standard BS 6150). To get the best finish from Heritage Velvet Matt you might choose to use a good quality short pile microfibre roller when applying to walls and ceilings. We do not advise the use of spray with Heritage Velvet Matt.

Pack size

The products are packed in a packaging with a capacity of 1L, 2.5L and 5L.

Production process and conditions of delivery

During paint production, the raw materials are pre-weighed according to the percentage of each in the formulation. The pigment is then dispersed in a mixture of binder and solvent using a variety of machines. The amount and type of dispersion is product specific and depends on the type of finish required. Finally, tinter is added to correct the colour, the paint is thinned to viscosity, filtered and filled into the appropriate packaging container. All paint containers are transported from the production sites to a distribution center and finally to the customers in the UK.

| COMPONENT (> 1%) | [kg / %] |
|--------------------|--------------|
| Lightfast Pigments | Confidential |
| Acrylic | Confidential |
| Water | Confidential |

(*) > 1% of total mass

SCOPE AND TYPE

The type of this EPD is Cradle-to-Gate with options. All major steps from the extraction of natural resources to the final disposal of the product are included in the environmental performance of the manufacturing phase, except those that are not relevant to the environmental performance of the product. This declaration does not imply an indicator result of zero.

This EPD is representative for products produced in the UK and EU. The paint is produced in Cork, Ireland and Montataire, France, and the application market is for customers in the UK and EU. Likewise, for the end-of-life, the fate of the paint product is described within an UK and EU context. The software GaBi 10.5.0.78 Professional is used to perform the LCA. In the model Ecoinvent 3.6 database was used. The validity of this EPD is in correspondence with the specifications of the LCA project report.

All impacts associated with the upstream production of materials and energy are included in the system boundaries. Mining activities and controlled landfills are included in the product systems. Similarly, wastewater treatment activities are also considered within the technological systems. The

emissions and resource extractions derived from these processes are considered elementary exchanges between the product systems and the environment.

| PRODUCT STAGE | | | CONSTRUCTION | | | | | USE STAGE | | | | | | | END OF LIFE | | | | BENEFITS AND | |
|---------------------|-----------|---------------|------------------------|----------|-----|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|-------------|------------------------------------|--|--|-------------------|--|
| | | | PROCESS | | | | | | | | | | | | STAGE | | | | LOADS BEYOND THE | |
| | | | STAGE | | | | | | | | | | | | | | | | SYSTEM BOUNDARIES | |
| Raw material supply | Transport | Manufacturing | Transport gate to site | Assembly | Use | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction 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 | | | | |
| X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | ND | | | | |

X = Modules Assessed

ND = Not Declared

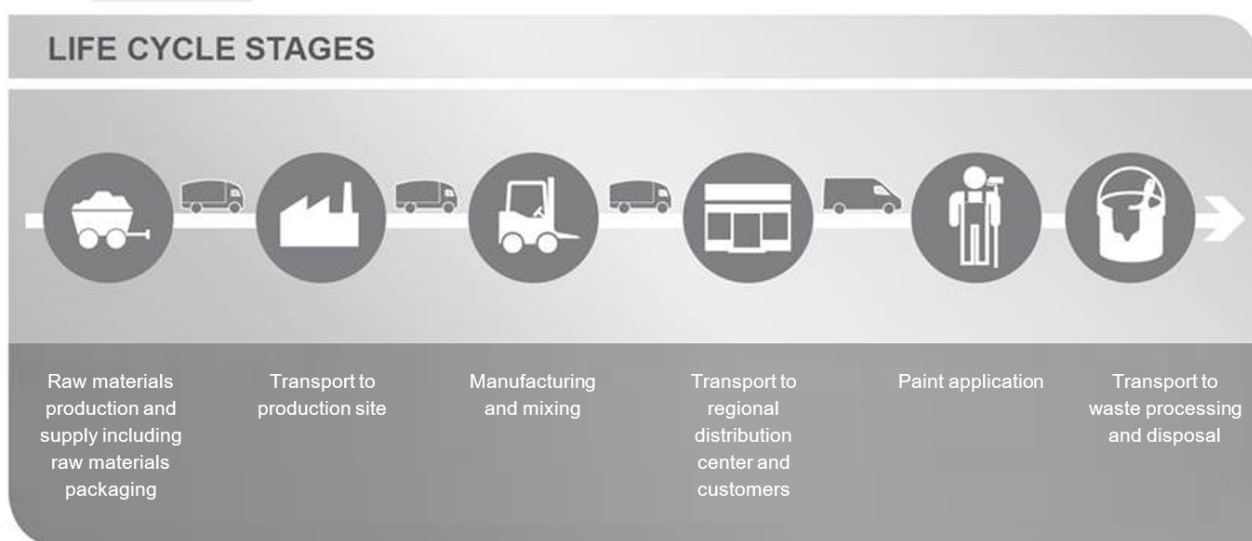


Figure: LCA process diagram according to EN 15804 (7.2.1)

REPRESENTATIVENESS

This EPD is representative for the 47 product paints belonging to the Dulux Trade Heritage Matt:

1. Dulux Trade Heritage Matt Ash White;
2. Dulux Trade Heritage Matt Beachcomb Grey;
3. Dulux Trade Heritage Matt Candle Cream;
4. Dulux Trade Heritage Matt Chalk White;
5. Dulux Trade Heritage Matt Chiltern White;
6. Dulux Trade Heritage Matt China White;
7. Dulux Trade Heritage Matt Clear Skies;
8. Dulux Trade Heritage Matt Cornish Clay;
9. Dulux Trade Heritage Matt Country Sky;
10. Dulux Trade Heritage Matt Cream;
11. Dulux Trade Heritage Matt Deep Ultramarine;
12. Dulux Trade Heritage Matt Dh Oxford Blue;
13. Dulux Trade Heritage Matt Dh White;
14. Dulux Trade Heritage Matt Flax Seed;
15. Dulux Trade Heritage Matt Grecian White;
16. Dulux Trade Heritage Matt Green Oxide;
17. Dulux Trade Heritage Matt Green Slate;
18. Dulux Trade Heritage Matt Indian White;
19. Dulux Trade Heritage Matt Lead Grey;
20. Dulux Trade Heritage Matt Lead White;
21. Dulux Trade Heritage Matt Light French Grey;
22. Dulux Trade Heritage Matt Linen White;
23. Dulux Trade Heritage Matt Maritime Teal;
24. Dulux Trade Heritage Matt Midnight Teal;
25. Dulux Trade Heritage Matt Ochre White;
26. Dulux Trade Heritage Matt Pale Nutmeg;
27. Dulux Trade Heritage Matt Pale Walnut;
28. Dulux Trade Heritage Matt Panel White;
29. Dulux Trade Heritage Matt Pebble Grey;
30. Dulux Trade Heritage Matt Pewter Plate;
31. Dulux Trade Heritage Matt Piano White;
32. Dulux Trade Heritage Matt Potters Pink;
33. Dulux Trade Heritage Matt Pumice Brown;
34. Dulux Trade Heritage Matt Quartz Grey;
35. Dulux Trade Heritage Matt Roman White;
36. Dulux Trade Heritage Matt Romney Wool;
37. Dulux Trade Heritage Matt Sage Green;
38. Dulux Trade Heritage Matt Silver Fern;
39. Dulux Trade Heritage Matt Stone Green;
40. Dulux Trade Heritage Matt Swedish White;
41. Dulux Trade Heritage Matt Turtledove Grey;
42. Dulux Trade Heritage Matt Wiltshire White;

- 43. Dulux Trade Heritage Matt Whisbone White;
- 44. Dulux Trade Heritage Matt York White;
- 45. Dulux Trade Heritage Matt Light Base;
- 46. Dulux Trade Heritage Matt Medium Base;
- 47. Dulux Trade Heritage Matt Extra Deep Base.

This EPD is representative for the products manufactured in Cork, Ireland and Montataire, France and sold in the UK and EU. The paint is produced at two production sites: Cork, Ireland and Montataire, France.

ENVIRONMENTAL IMPACT per functional unit or declared unit (indicators A1)

| | UNIT | A1 | A2 | A3 | A1-A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 |
|------|----------------|-------------|--------------|--------------|-------------|-------------|--------------|------|------|------|------|------|------|------|------|--------------|------|--------------|
| ADPE | kg Sb eq. | 8.58 E-7 | 1.16 E-8 | 1.82 E-8 | 8.88 E-7 | 8.04 E-8 | 2.25 E-9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.37 E-9 | 0.00 | 3.94 E-9 |
| ADPF | MJ | 5.20 E+0 | 7.49 E-2 | 5.10 E-1 | 5.79 E+0 | 4.10 E-1 | 1.37 E-2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 E-2 | 0.00 | 3.08 E-2 |
| GWP | kg CO2 eq. | 2.50 E-1 | 4.82 E-3 | 4.25 E-2 | 2.98 E-1 | 2.68 E-2 | 8.35 E-3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 E-3 | 0.00 | 5.83 E-2 |
| ODP | kg CFC11 eq. | 3.00 E-8 | 8.78 E-10 | 3.20 E-10 | 3.12 E-8 | 4.78 E-9 | 1.58 E-10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.37 E-10 | 0.00 | 3.45 E-10 |
| POCP | kg ethene eq. | 1.54 E-4 | 1.98 E-6 | 2.59 E-5 | 1.82 E-4 | 1.05 E-5 | 2.65 E-3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.36 E-7 | 0.00 | 9.94 E-7 |
| AP | kg SO2 eq. | 3.26 E-3 | 1.90 E-5 | 1.18 E-4 | 3.40 E-3 | 1.05 E-4 | 3.84 E-6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.92 E-6 | 0.00 | 1.02 E-5 |
| EP | kg (PO4)3- eq. | 3.92 E-4 | 5.64 E-6 | 1.90 E-5 | 4.16 E-4 | 3.14 E-5 | 6.87 E-6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.05 E-6 | 0.00 | 1.08 E-5 |

ADPE = Abiotic Depletion Potential for non-fossil resources

ADPF = Abiotic Depletion Potential for fossil resources

GWP = Global Warming Potential

ODP = Depletion potential of the stratospheric ozone layer

POCP = Formation potential of tropospheric ozone photochemical oxidants

AP = Acidification Potential of land and water

EP = Eutrophication Potential

RESOURCE USE per functional unit or declared unit (A1 / A2)

| | UNIT | A1 | A2 | A3 | A1-A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 |
|-------|------|-------------|--------------|--------------|-------------|-------------|--------------|------|------|------|------|------|------|------|------|--------------|------|--------------|
| PERE | MJ | 1.34 E-1 | 8.14 E-4 | 1.37 E-1 | 2.73 E-1 | 4.55 E-3 | 1.63 E-4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.45 E-4 | 0.00 | 3.41 E-4 |
| PERM | MJ | 1.75 E-4 | 4.56 E-10 | 1.46 E-4 | 3.22 E-4 | 2.91 E-9 | 1.15 E-10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 E-10 | 0.00 | 6.05 E-10 |
| PERT | MJ | 1.35 E-1 | 8.14 E-4 | 1.38 E-1 | 2.73 E-1 | 4.55 E-3 | 1.63 E-4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.45 E-4 | 0.00 | 3.41 E-4 |
| PENRE | MJ | 5.53 E+0 | 7.59 E-2 | 5.28 E-1 | 6.13 E+0 | 4.15 E-1 | 1.39 E-2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.83 E-2 | 0.00 | 3.12 E-2 |
| PENRM | MJ | 1.24 E-6 | 0.00 | 1.84 E-9 | 1.24 E-6 | 9.59 E-6 | 3.63 E-7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.62 E-7 | 0.00 | 9.50 E-7 |
| PENRT | MJ | 5.53 E+0 | 7.59 E-2 | 5.28 E-1 | 6.13 E+0 | 4.15 E-1 | 1.39 E-2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.83 E-2 | 0.00 | 3.12 E-2 |
| SM | MJ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RSF | MJ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NRSF | MJ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FW | m3 | 1.60 E-1 | 9.25 E-6 | -1.55 E-5 | 1.60 E-1 | 4.84 E-5 | 2.79 E-6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.28 E-6 | 0.00 | 3.22 E-5 |

PERE = Use of renewable energy excluding renewable primary energy resources

PERM = Use of renewable energy resources used as raw materials

PERT = Total use of renewable primary energy resources

PENRE = Use of non-renewable primary energy resources excluding non-renewable energy resources used as raw materials

PENRM = Use of non-renewable primary energy resources used as raw materials

PENRT = Total use of non-renewable primary energy resources

SM = Use of secondary materials

RSF = Use of renewable secondary fuels

NRSF = Use of non renewable secondary fuels

FW = Use of net fresh water

OUTPUT FLOWS AND WASTE CATEGORIES per functional unit or declared unit (A1 / A2)

| | UNIT | A1 | A2 | A3 | A1-A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 |
|------|------|------|------|-------------|-------------|------|-------------|------|------|------|------|------|------|------|------|------|------|-------------|
| HWD | kg | 0.00 | 0.00 | 2.84 E-4 | 2.84 E-4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NHWD | kg | 0.00 | 0.00 | 2.31 E-3 | 2.31 E-3 | 0.00 | 1.17 E-2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 E-1 |
| RWD | kg | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CRU | kg | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MFR | kg | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MER | kg | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EEE | MJ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ETE | MJ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

HWD = Hazardous Waste Disposed

RWD = Radioactive Waste Disposed

MFR = Materials for recycling

EEE = Exported Electrical Energy

NHWD = Non Hazardous Waste Disposed

CRU = Components for reuse

MER = Materials for energy recovery

ETE = Exported Thermal Energy

CALCULATION RULES

Cut off criteria

The cut-off is considered in the raw material supply stage (A1). Cut-off of inputs comprises of the raw materials, for which no appropriate proxies were found. In this studies there were no cut-off inputs or outputs. The energy consumed during application, used for instance in spray applicators, has not been included due to its insignificance.

Data quality and data collection period

Specific data was collected from AkzoNobel through a questionnaire, including inquiries about paint characteristics and packaging, logistics data (e.g. transport), production information and end-of-life. The data collection period for specific data was the year 2021.

Data gaps (i.e. transport data, end of life scenarios) were covered with data generic values for transport as described in the Product Environmental Footprint Category Rules - Decorative Paints document version 1.0 published by CEPE and reviewed in April 2018. Further data gaps (i.e. end-of-life transport data) were covered with data from internal AkzoNobel LCA studies concerning the same type of products (paints and coatings). Generic data (i.e. upstream acquisition and production of raw materials, energy generation, transport, waste treatment processes) was selected from Ecoinvent 3.6 database. In the case of missing data, a relevant proxy was searched and adjusted to the corresponding unit process.

Allocation procedure

To allocate the emissions and inputs to the manufactured products, the decision-hierarchy in ISO 14044 is used (ISO 2006). It is not possible to sub-divide the site data into a more detailed level or find physical causalities between inputs and outputs, thus allocation is done based on mass, considering the annual production of paint product for each site. The paint production is basically a process of mixing ingredients and, therefore, the environmental impact is fairly to be related to the mass of the products.

| Parameter | Unit | Value |
|--------------------|-------------------|-------|
| VOC content | kg/l | 0.01 |
| Density | kg/l | 1.30 |
| Coverage | m ² /l | 13 |
| Number of layers | Quantity | 2 |
| Total product used | kg/m ² | 0.20 |

SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION

A1. Raw materials supply

This module considers the extraction and processing of all raw materials and energy which occur upstream to the Dulux Trade Heritage Matt paints manufacturing process, as well as waste processing up to the end-of waste state.

A2. Transport of raw materials to manufacturer

This includes the transport distance of the raw materials to the manufacturing facility via road.

| Vehicle type used for transport | Truck |
|---|--------------------|
| Distance, km | 460 |
| Capacity | >32 t ,60% payload |
| Bulk density of transported products, kg/m3 | 1300 kg/m3 |

A3. Manufacturing

This module covers the manufacturing of the Dulux Trade High Performance Floor Paint and includes all processes linked to production such as storing, mixing, packing and internal transportation. Use of electricity, fuels and auxiliary materials in paint production is taken into account as well. Data regarding paint production was provided for the manufacturing sites where the Dulux Trade Heritage Matt paints are produced: Cork, Ireland and Montataire, France. Furthermore, the specific transportation distances and transportation modes for raw materials, paint packaging and transportation to customer were collected from the AkzoNobel logistics department. Primary data and site-specific data were retrieved. For electricity sources (wind power used at the Stowmarket site), Ecoinvent 3.6 dataset was used. For upstream (raw material processes) and downstream processes (application, use, and waste processing) generic data is used when no specific data is obtained. The construction site data includes lighting, heating, offices, etc. The manufacture of production equipment and infrastructure is not included in the system boundary.

A4. Transport to Regional Distribution Centre and customer

All paint containers are transported from the production facility into a distribution centre and then finally to the customer. On average, the transport characteristics for this life cycle stage are the following

| Coatings transport type | Transport from factory to RDC | Transport from RDC to customer | Dried paint |
|--------------------------------------|-------------------------------|--------------------------------|-------------|
| Transport Type | Truck 1 | Truck 2 | 0 |
| Distance (km) | 350 | 370 | 1 |
| Capacity | >32 t, 60% payload | > 32 t ,60% payload | NA |
| Bulk density of transported products | 1300 kg/m3 | 1441 kg/m3 | NA |

A5. Application and use

This module includes the environmental aspects and impacts associated with the application and of the paint. It is assumed that no energy is required during the application of this paint. The use of paintbrushes and other appliances used during application are not included. There are some raw materials added in the paint formulations which contain small amounts of solvents. The VOC

emissions during application of paint are included in this module.

C2. Transport to incineration or landfill

This module includes one-way transportation distance of the demolition or sorting site to the dump site.

| End-of-life transport type | Transport to waste processing |
|--------------------------------------|-------------------------------|
| Vehicle type | >32 t, payload average fleet |
| Distance | 100 km |
| Capacity utilisation | 60% |
| Bulk density of transported products | 1300 kg/m ³ |

C3. Waste processing and C4. Disposal

The end of life stage is encompassed in these modules. It is assumed that paint is used as interior paint and exterior paint. In both cases, it is assumed that part of the paint is lost during application and the rest is applied.

The main difference between interior and exterior paint is that for interior paints it is assumed that a percentage (20%) of the applied paint stays for more than 100 years. This is not valid for exterior paint because it is assumed that the polymer in exterior conditions will be flaking and finally disposed away.

| Classification of paint, based on function | % Sold paint in walls > 100 years | % of sold paint to landfill | % of sold paint to incineration |
|--|--------------------------------------|--------------------------------|------------------------------------|
| Interior Masonry Wall | 20% | 88% | 88% |
| Exterior, Trim and other paints | 0% | 12% | 12% |

ADDITIONAL INFORMATION ON ENVIRONMENTAL IMPACTS

The CML-IA methods do not have characterization factors for the “unspecified VOC” emission flow in the Global Warming Potential environmental impact category. However, VOCs are known to have influence in this category. In order to include the impacts of the VOCs and align with current practice of AkzoNobel, it was decided to calculate the VOC impact on Global Warming Potential separately. The Global Warming Potential impact category has been modified, adding a generic factor of 4.23 kgCO₂-eq/kg VOC, which is in line with AkzoNobel characterisation factors for carbon reporting.

| Environmental Impact | A1 | A2 | A3 | TOTAL A1-A3 | A4 | A5 | C2 | C4 |
|--|---------|---------|---------|----------------|---------|---------|---------|---------|
| Global Warming potential (GWP 100 years) | 2.50E-1 | 4.82E-3 | 4.25E-2 | 2.98E-1 | 2.68E-2 | 8.35E-3 | 1.78E-3 | 5.83E-2 |
| Global Warming potential (GWP 100 years) including VOC characterization factor | 2.50E-1 | 4.82E-3 | 4.26E-2 | 2.98E-1 | 2.68E-2 | 5.06E-2 | 1.78E-3 | 5.83E-2 |

DECLARATION OF SVHC

None of the substances contained in the product are listed in the "Candidate List of Substances of Very High Concern for authorisation", or they do not exceed the threshold with the European Chemicals Agency.

REFERENCES

- EN 15804:2012+A1:2013 Sustainability of construction works. Environmental product declarations. Core rules for the product category of construction products, of 11/2013.
- ISO 14040/14044 on Life Cycle Assessments
- Product Environmental Footprint Category Rules - Decorative Paints version 1.0, 2018. Developed by the Technical Secretariat Decorative Paints of the European Council of the Paint, Printing Ink and Artists' Colours Industry.
- Willener Y., 2021. Personal communication with Yasmine Willener, Quality & Regulations Manager Akzo Nobel Decorative Paints, UK.
- Thinkstep GaBi Software-System and Database for Life Cycle Engineering. Copyright 1992-2018 ThinkStep AG.
- Wernet, G., Bauer, C., Steubing, B., Reinhard, J., Moreno-Ruiz, E., and Weidema, B., 2016. The ecoinvent database version 3 (part I): overview and methodology. The International Journal of Life Cycle Assessment, [online] 21(9), pp.1218–1230. Available at: <<http://link.springer.com/10.1007/s11367-016-1087-8>> [Accessed 21 12 2021.]

REMARKS

None