



Environmental

Product

Declaration

According to EN15804+A2



This declaration is for:

Dulux Trade Vinyl Matt

Provided by:

AkzoNobel Decorative Paints





program operator
Stichting MRPI®
publisher
Stichting MRPI®
www.mrpi.nl

MRPI® registration
1.1.00527.2024
date of first issue
5-4-2024
date of this issue
5-4-2024
expiry date

5-4-2029









COMPANY INFORMATION



AkzoNobel Decorative Paints Wexham Road SL2 5DS Slough, UK 0333 222 70 70



MRPI® REGISTRATION

1.1.00527.2024



DATE OF ISSUE

5-4-2024

EXPIRY DATE

5-4-2029



SCOPE OF DECLARATION

This MRPI®-EPD certificate is verified by Gert-Jan Vroege, Eco Intelligence. The LCA study has been done by Serena Cunsolo, Brienne Wiersema, Ecomatters B.V.. The certificate is based on an LCA-dossier according to EN15804+A2. It is verified according to the 'MRPI®-EPD verification protocol November 2020.v4.0'.

EPD's of construction products may not be comparable if they do not comply with EN15804+A2. 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.



PRODUCT

Dulux Trade Vinyl Matt



DECLARED UNIT/FUNCTIONAL UNIT

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



DESCRIPTION OF PRODUCT

99.9% VOC free emulsion with excellent opacity and coverage. Suitable for use on interior walls and ceilings.



VISUAL PRODUCT





MORE INFORMATION

https://www.duluxtradepaintexpert.co.uk/en/products/duluxtrade-vinyl-matt



PROGRAM OPERATOR

Stichting MRPI[®]
Kingsfordweg 151
1043 GR
Amsterdam



Ing. L. L. Oosterveen MSc. MBA Managing Director MRPI

DEMONSTRATION OF VERIFICATION

CEN standard EN15804 serves as the core PCR(a)

Independent verification of the declaration an data according to ${\tt EN15804+A2}$

internal:

_ external: x

Third party verifier: Gent-Jah Vroege, Eco Intelligence

390

[a] PCR = Product Category Rules









DETAILED PRODUCT DESCRIPTION

Dulux Trade Vinyl Matt is a top quality, high opacity emulsion based on unique AkzoNobel technology which gives excellent coverage with a professional high quality finish. Dulux Trade Vinyl Matt has a good flow and open time for easy application. Suitable for all normal interior wall and ceiling surfaces. Our formulation is 99.9% VOC free, based on in-can VOC content and measured in accordance with ISO 11890-2:2013. It has also been independently tested for indoor emissions, including formaldehyde, TVOC, TSVOC and Cat 1A & 1B carcinogens.

Typical use

Suitable for use on all normal interior wall and ceiling surfaces.

Application method

Brush, roller, or airless spray. As with other water-based paints, do not apply at temperatures below 8°C (as recommended by British Standard BS 6150)

Pack size (L)

The products are packed in a packaging with a capacity of 2.5, 5, 7.5. 10 and 12 liters.

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 (in this case water) 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 color, 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%)	(%)
Pigment: Lightfast pigments	Confidential
Binder: Copolymer Dispersion	Confidential
Solvent: Water	Confidential



SCOPE AND TYPE

The type of this EPD is Cradle-to-Grave 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 the application market is also for customers in the UK. For the end-of-life, as a conservative assumption, the fate of the paint product is described within a global context.

The software Sphera LCA for Experts 10.7.1.28 is used to perform the LCA. In the model Ecoinvent 3.9.1 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. The emissions and resource extractions derived from these processes are considered elementary exchanges between the product systems and the environment.









																LOADS BEYOND THE SYSTEM BOUNDARIES
Rawmaterial 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	А3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
Х	Χ	Χ	Х	Х	ND	ND	ND	ND	ND	ND	ND	Χ	Χ	Χ	Х	Х

ND= Not Declared







LIFE CYCLE STAGES



Raw materials production and supply including raw materials packaging Transport to production site Manufacturin
and mixing

Transport to regional distribution center and customers

Paint application

Transport to waste processing and disposal



REPRESENTATIVENESS

This EPD is representative for fifteen paint products to Dulux Trade Vinyl Matt:

- 1. Dulux Trade Vinyl Matt Light Base
- 2. Dulux Trade Vinyl Matt Medium Base
- 3. Dulux Trade Vinyl Matt White
- 4. Dulux Trade Vinyl Matt Pure Brilliant White
- 5. Dulux Trade Vinyl Matt Magnolia
- 6. Dulux Trade Vinyl Matt Gardenia
- 7. Dulux Trade Vinyl Matt Polished Pebble
- 8. Dulux Trade Vinyl Matt Natural Calico
- 9. Dulux Trade Vinyl Matt Jasmine White
- 10. Dulux Trade Vinyl Matt Chic Shadow
- 11. Dulux Trade Vinyl Matt Natural Hessian
- 12. Dulux Trade Vinyl Matt White Cotton13. Dulux Trade Vinyl Matt Nutmeg White
- 14. Dulux Trade Vinyl Matt Extra Deep Base
- 15. Dulux Trade Vinyl Matt Black

This EPD is representative for products manufactured in the UK and sold in the UK.









ENVIRONMENT IMPACT per functional unit or declared unit (core indicators A2)

	Unit	A1	A2	A3	A1- A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	С3	C4	D
GWP-	kg	1.40	3.16	1.71	1,61	3,10	9.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.13	0.00	2.49	-3.67
total	CO2 ea.	E-01	E-03	E-02	E-01	E-03	E-03	E+00	F-04	E+00	E-02	E-03							
GWP-	kg	1.40	3.15	2,17	1,65	3,09	5.39	0.00	0.00	0,00	0.00	0,00	0,00	0,00	0.00	7,13	0,00	2,49	-3,68
fossil	CO2 ea.	E-01	E-03	E-02	E-01	E-03	E-03	E+00	E-04	F+00	E-02	E-03							
GWP-	kg	-1.90	2.41	-4.61	-4.79	1.66	4.48	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	2.63	0.00	4.80	8.80
biogenic	CO2 eq.	F-04	E-06	E-03	E-03	E-06	E-03	E+00	E+00	F+00	E+00	E+00	E+00	E+00	E+00	E-07	E+00	E-03	E-06
GWP-	kg	4.03	1.50	1.04	4,15	1,51	3.59	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	3.55	0.00	3.55	-1.42
luluc)	CO2 ea.	E-04	E-06	E-05	E-04	E-06	E-07	E+00	E-07	E+00	E-07	E-06							
,	kg	7,10	6,92	3,97	7,57	5,80	1.44	0,00	0.00	0.00	0.00	0,00	0,00	0,00	0.00	1,18	0,00	1,80	-1,13
ODP	CFC11 ea.	E-09	E-11	E-10	E-09	E-11	E-11	E+00	E-11	E+00	E-11	E-10							
	mol	9.06	1,39	9,32	1,01	1,33	3,90	0,00	0,00	0.00	0.00	0,00	0,00	0,00	0.00	3.13	0,00	5,60	-1,42
AP	H+ eq.	E-04	E-05	E-05	E-03	E-05	E-06	E+00	E-06	E+00	E-06	E-05							
EP-	kg	1,61	2,25	8,04	1,71	2,40	7,03	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	5,81	0,00	7,55	-1,39
freshwater	PO4 eq.	E-05	E-07	E-07	E-05	E-07	E-08	E+00	E-08	E+00	E-08	E-06							
EP-	kg	1,50	5,16	2,01	1,75	4,94	1,79	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	1,15	0,00	2,31	-3,35
marine	N eq.	E-04	E-06	E-05	E-04	E-06	E-06	E+00	E-06	E+00	E-06	E-06							
EP-	mol	1,63	5,50	1,97	1,88	5,27	1,72	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	1,22	0,00	2,49	-3,44
terrestrial	N eq.	E-03	E-05	E-04	E-03	E-05	E-05	E+00	E-05	E+00	E-05	E-05							
2002	kg	4,55	2,04	8,94	5,65	1,93	9,90	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	4,41	0,00	7,69	-1,89
POCP	NMVOC eq.	E-04	E-05	E-05	E-04	E-05	E-06	E+00	E-06	E+00	E-06	E-05							
ADP-minerals	kg	2,34	8,51	1,17	2,54	8,41	-8,89	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	1,94	0,00	1,19	-3,30
& metals	Sb eq.	E-07	E-09	E-08	E-07	E-09	E-10	E+00	E-09	E+00	E-09	E-09							
	MJ, net																		
ADP-fossil	calorific	2,05	4,68	5,22	2,62	4,61	1,21	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	1,06	0,00	1,35	-5,35
	value	E+00	E-02	E-01	E+00	E-02	E-02	E+00	E-02	E+00	E-02	E-02							
	m3 world				,														
WDP	eq.	3,81	3,11	2,55	3,82	3,09 ^E	6,92	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	7,16	0,00	5,89	-2,44
I	Deprived	E+00	E-04	E-03	E+00	-04	E-05	E+00	E-05	E+00	E-04	E-04							

GWP-total = Global Warming Potential total

GWP-fossil = Global Warming Potential fossil fuels

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 Exceedence

EP-freshwater = Eutrophication Potential, fraction of nutrients reaching freshwater end compartment

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

EP-terrestrial = Eutrophication Potential, Accumulated Exceedence

POCP = Formation potential of tropospheric ozone photochemical oxidants

ADP-minerals&metals = Abiotic Depletion Potential for non fossil resources [2]

ADP-fossil = Abiotic Depletion for fossil resources potential [2]

WDP = Water (user) deprivation potential, deprivation-weighted water consumption [2]

Disclaimer [2]

- The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator









ENVIRONMENT IMPACT per functional unit or declared unit (additional indicators A2)

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
PM	Disease	4,03	2,50	9,42	4,15	2,47	6,97	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	5,69	0,00	9,10	-2,68
	incidence	E-08	E-10	E-10	E-08	E-10	E-11	E+00	E-11	E+00	E-11	E-10							
IRP	kBq	1,98	5,82	4,15	2,02	4,82	9,81	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	9,59	0,00	9,94	-1,10
	U235 eq.	E-02	E-05	E-04	E-02	E-05	E-06	E+00	E-06	E+00	E-06	E-04							
ETP-	CTUe	9,31	2,20	1,53	9,48	2,28	7,65	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	5,46	0,00	1,38	-1,21
fw		E+00	E-02	E-01	E+00	E-02	E-03	E+00	E-03	E+00	E+00	E-02							
HTP-c	CTUh	2,03 E-10	1,45 E-12	1,70 E-11	2,22 E-10	1,42 E-12	4,05 E-12	0,00 E+00	3,28 E-13	0,00 E+00	3,16 E-11	-1,89 E-11							
HTP-	CTUh	1,15	2,88	8,21	1,26	2,86	2,40	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	6,62	0,00	9,67	-1,72
nc		E-09	E-11	E-11	E-09	E-11	E-11	E+00	E-12	E+00	E-11	E-11							
SQP		2,34 E-01	4,67 E-02	6,48 E-01	9,29 E-01	4,61 E-02	1,12 E-02	0,00 E+00	1,06 E-02	0,00 E+00	2,34 E-02	-8,41 E-03							

PM = Potential incidence of disease due to PM emissions

IRP = Potential Human exposure efficiency relative to U235 [1]

ETP-fw = Potential Comparative Toxic Unit for ecosystems [2]

HTP-c = Potential Comparative Toxic Unit for humans [2]

HTP-nc = Potential Comparative Toxic Unit for humans, non-cancer [2]

SQP = Potential soil quality index [2]

Disclaimer [1]

- This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste.

Disclaimer [2]

- The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.









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

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	В7	C1	C2	C3	C4	D
HWD	ka	0,00	0,00	1,09	1,09	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	kg	E+00	E+00	E-05	E-05	E+00													
NHWD	kg	0,00	0,00	1,08	1,08	0,00	6,09	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	8,53	0,00
WIIWD	Ng.	E+00	E+00	E-04	E-04	E+00	E-03	E+00	E-02	E+00									
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	0,00
KWD	^g	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+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	0,00
CNO	Ng.	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00
MFR	kg	0,00	0,00	0,00	0,00	0,00	2,18	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
IVIII	^g	E+00	E+00	E+00	E+00	E+00	E-03	E+00											
MER	kg	0,00	0,00	0,00	0,00	0,00	1,13	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
IVILIV	Ng.	E+00	E+00	E+00	E+00	E+00	E-03	E+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	0,00
LLL	IVIJ	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+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	0,00
LIL	IVIJ	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+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









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

	Unit	A1	A2	А3	A1- A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	СЗ	C4	D
PERE	MJ	5,78 E-02	6,77 E-04	8,99 E-02	1,48 E-01	6,14 E-04	8,40 E-05	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00E +00	0,00 E+00	1,33 E-04	0,00 E+00	1,57 E-04	-1 E-03
PERM	МЈ	1,45 E-04	3,57 E-10	8,20 E-04	9,65 E-04	3,38 E-10	1,41 E-10	0,00 E+00	7,90 E-11	0,00 E+00	2,31 E-10	-3 E-10							
PERT	МЈ	5,80 E-02	6,77 E-04	9,07 E-02	1,49 E-01	6,14 E-04	8,40 E-05	0,00 E+00	1,33 E-04	0,00 E+00	1,57 E-04	-1 E-03							
PENRE	МЈ	2,05 E+00	4,68 E-02	5,22 E-01	2,62 E+00	4,61 E-02	1,21 E-02	0,00 E+00	1,06 E-02	0,00 E+00	1,35 E-02	-5 E-02							
PENRM	МЈ	9,24 E-07	0,00 E+00	9,58 E-09	9,33 E-07	0,00 E+00	0 E+00												
PENRT	МЈ	2,05 E+00	4,68 E-02	5,22 E-01	2,62 E+00	4,61 E-02	1,21 E-02	0,00 E+00	1,06 E-02	0,00 E+00	1,35 E-02	-5 E-02							
SM	kg	0,00 E+00	0 E+00																
RSF	MJ	0,00 E+00	0 E+00																
NRSF	MJ	0,00 E+00	0 E+00																
FW	m3	8,88 E-02	7,25 E-06	6,27 E-05	8,89 E-02	7,20 E-06	1,61 E-06	0,00 E+00	1,67 E-06	0,00 E+00	1,37 E-05	-6 E-06							

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



BIOGEEN CARBON CONTENT per functional unit or declared unit (A1 / A2)

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	В7	C1	C2	C3	C4	D
BBCpr	Kg C	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	0,00
ВВСРІ	Ng C	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00	E+00
ВССра	ka C	0,00	0,00	-1,44	-1,44	0,00	1,44	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
БССРА	kg C	E+00	E+00	E-03	E-03	E+00	E-03	E+00											

BCCpr = Biogenic carbon content in product BCCpa = Biogenic carbon content in packaging









CALCULATION RULES

Cut off criteria

The only cut-off is considered in the installation stage (A5). The energy consumed during application, used for instance in spray applications, 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 2022.

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 3.9.1 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	Value	Unit
VOC content	0,3	g/l
Density	1,4	kg/l
Coverage	17	m2/I
Number of layers	1	Quantity
Total product used	0,08	kg/m2



SENARIOS 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 Vinyl Matt 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 and sea.

Vehicle type	used for transport	Truck	Ship
Distance, km		348	35
Capacity		>32 t 60% Payload	Containership 70%

A3. Manufacturing

This module covers the manufacturing of the Dulux Trade Vinyl Matt 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 site where the Dulux Trade Vinyl Matt (UK) was produced. The transportation distances and transportation modes for raw materials, packaging materials and to customer were collected from the AkzoNobel logistics department. Primary data and site-specific data were retrieved. For electricity sources (renewable mix) the Ecoinvent 3.9.1 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 center 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 point of sales (customer)
Transport type	Truck	Truck
Distance, km	142	200
Capacity	> 32t, 60% payload	>32 t, 60% payload

A5. Application and use

This module includes the environmental aspects and impacts associated with the application and of the paint. The energy required for the application of this paint has not been included in the study as it is deemed negligible. 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 from the application process have been included in the assessment.

C2. Transport to incineration or landfill

This module includes one-way transportation distance of the demolition or sorting site to the dump site. Transportation distances to the disposal facility were retrieved from the Product Environmental Footprint Category Rules – Decorative paints document.

End-of-life transport type	Transport to waste processing
Vehicle type	Truck 34t-40t payload average fleet
Distance, km	80 km
Capacity	64%

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.

Classification op paint, based on function	% of sold paint to landfill	% of sold paint to incineration
Interior Masonry Wall	88%	12%



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+A2:2019 Sustainability of construction works. Environmental product declarations. Core rules for the product category of construction products, of 2019.
- ISO 14040/14044 on Life Cycle Assessments
- Product Environmental Footprint Category Rules Decorative Paints version 1.0, 2018.

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- Thinkstep GaBi Software-System and Database for Life Cycle Engineering. Copyright 1992-2018 ThinkStep AG.
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