

**Environmental  
Product  
Declaration**

According to ISO14025+EN15804+A2

This declaration is for:  
**Intergard 251HS**

Provided by:  
**AkzoNobel**



MRPI® registration:  
**1.1.01113.2026**

Program operator:  
**Stichting MRPI®**  
Publisher:  
**Stichting MRPI®**  
[www.mrpi.nl](http://www.mrpi.nl)

Date of first issue:  
**9-3-2026**  
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**9-3-2026**  
Expiry date:  
**9-3-2031**



**COMPANY INFORMATION**

AkzoNobel  
 Stonegate Lane  
 NE10 0JY  
 Felling, Gateshead  
 United Kingdom

**PRODUCT**

Intergard 251HS

**DECLARED UNIT / FUNCTIONAL UNIT**

1 Area (m2)

**DESCRIPTION OF PRODUCT**

A range of two component, low VOC, high solids, fast curing epoxy primer and intermediates containing anti-corrosive pigmentation.

<https://www.international-pc.com/en/products/intergard-251hs>

**MRPI® REGISTRATION**

1.1.01113.2026

**DATE OF THIS ISSUE**

9-3-2026

**EXPIRY DATE**

9-3-2031

**SCOPE OF DECLARATION**

This MRPI®-EPD certificate is verified by Gert-Jan Vroege, Eco-intelligence. The LCA study has been done by Gudo Wisselo, Wouter van Kootwijk, Ecomatters. The certificate is based on an LCA-dossier according to ISO14025+EN15804+A2. It is verified according to the 'Verification protocol for MRPI LCA project report & EPD 21th of May 2025, V. 5.2'. EPDs 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.

**VISUAL PRODUCT**

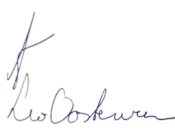
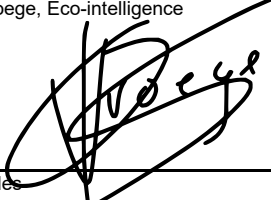


**PROGRAM OPERATOR**

Stichting MRPI®  
 Kingsfordweg 151  
 1043 GR  
 Amsterdam

**MORE INFORMATION**

<https://www.international-pc.com/en/products/intergard-251hs>

<p><b>Ing. L. L. Oosterveen MSc. MBA</b>  <b>Managing Director MRPI</b></p>	<p><b>DEMONSTRATION OF VERIFICATION</b></p>
	<p>CEN standard EN15804 serves as the core PCR [1]</p>
	<p>Independent verification of the declaration and data according to ISO14025+EN15804+A2</p> <p>Internal: _____ External: X</p> <p>Third party verifier: Gert-Jan Vroege, Eco-intelligence</p> 
	<p>[1] PCR = Product Category Rules</p>



## DETAILED PRODUCT DESCRIPTION

A two component, low VOC, high solids, fast curing epoxy primer and intermediate containing zinc phosphate anti-corrosive pigmentation. This EPD covers the following products: Intergard 251HS Red, Intergard 251HS Buff, Intergard 251HS Grey.

### Typical Use

For use on a range of industrial facilities and infrastructure assets where film build and fast through put are priorities. This primer, in combination with approved topcoats, offers optimised anticorrosive protection in various atmospheric environments.

### Service life

The service lifetime of the paints is 10 years.

### Application Method

Airless Spray, Air Spray, Brush, Roller

### Pack Size

20L

### 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 using a variety of mixing equipment. Finally, the paint undergoes QC (quality control), is filtered and filled into the appropriate packaging container(s). All paint containers are transported from the production sites to a distribution center and finally to the customers.

Paint characteristics		Unit
Waterborne / Solventborne	Solventborne	value
Interior wall / Exterior wall / Trim	Exterior	value
Lifetime	10	years
Density	1,575	kg/L
Coverage	10	m <sup>2</sup> /L
Number of layers	1	value
VOC content	253	g/L paint

Component (> 1%)	(kg / %)
Anti-corrosive pigments	Confidential
Epoxy Resin	Confidential
Organic Solvents	Confidential

## SCOPE AND TYPE

This LCA is a Cradle-to-Gate with options, including modules C and D. All steps, from the extraction of natural resources to the final disposal of the product, are included in the scope of the study. The life cycle stages included are A1-A5, C1-C4 and D. All impacts associated with mining activities, the upstream production of materials and energy, and downstream waste treatment, are included in the product system. The emissions and resource extractions derived from these processes are considered elementary exchanges between the product systems and the environment.

This EPD is representative for products produced in Amata, VN, Angered, SE, Bangalore, IN, Cikarang, ID, Houston, USA, Sunshine, AU and Suzhou, CN and the application market is global. Likewise, for the end-of-life, the fate of the paint product is described within a global context.

The software LCA for Experts 10.9.1.19 is used to perform the LCA. In the model Ecoinvent 3.11 cut-off by classification database was used.

The validity of this EPD is in correspondence with the specifications of the LCA project report.



PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE 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	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X

X = Modules Assessed  
 ND = Not Declared



### REPRESENTATIVENESS

This EPD is representative of the following paint products:

1. Intergard 251HS Grey
2. Intergard 251HS Red
3. Intergard 251HS Buff

This EPD is representative for the products manufactured in Amata, VN, Angered, SE, Bangalore, IN, Cikarang, ID, Houston, USA, Sunshine, AU and Suzhou, CN, and sold worldwide.

To group the paints within the EPD, a representative product is constructed based on the production volume percentage of the paints. The representative product encompasses the characteristics of the individual paints that constitute it.

The deviation of the individual products from the weighted average is assessed for the EF 3.1 Climate change – total impact category. The deviation appeared to be < 7% for all paints.



**ENVIRONMENTAL IMPACT per functional unit or declared unit (core indicators A2)**

Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-total kg CO2 eq.	4,74E-01	2,15E-02	1,15E-01	6,10E-01	5,13E-02	6,56E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,13E-03	0,00E+00	8,91E-02	-2,71E-02
GWP-fossil kg CO2 eq.	4,28E-01	2,15E-02	1,11E-01	5,61E-01	5,13E-02	6,53E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,13E-03	0,00E+00	4,90E-02	-2,70E-02
GWP-biogenic kg CO2 eq.	-4,02E-02	9,36E-06	3,23E-03	-3,69E-02	2,51E-05	2,47E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,00E-07	0,00E+00	4,02E-02	-1,04E-04
GWP-luluc kg CO2 eq.	8,64E-02	9,03E-06	1,04E-04	8,66E-02	2,14E-05	3,61E-06	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,83E-07	0,00E+00	8,87E-07	-4,41E-05
ODP kg CFC11 eq.	3,67E-09	3,77E-10	1,41E-09	5,45E-09	8,87E-10	1,92E-11	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,82E-11	0,00E+00	1,61E-09	-1,71E-08
AP mol H+ eq.	1,68E-03	1,41E-04	5,49E-04	2,37E-03	2,22E-04	1,32E-05	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,75E-06	0,00E+00	1,57E-02	-3,03E-01
EP-fresh water kg P eq.	3,65E-05	1,79E-06	4,44E-05	8,26E-05	4,69E-06	8,80E-07	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,36E-07	0,00E+00	-8,98E-03	-4,17E-03
EP-marine kg N eq.	6,19E-04	4,32E-05	1,04E-04	7,66E-04	7,77E-05	4,23E-06	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,61E-06	0,00E+00	2,36E-04	-2,75E-02
EP-terrestrial mol N eq.	3,52E-03	4,72E-04	1,08E-03	5,07E-03	8,43E-04	4,40E-05	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,92E-05	0,00E+00	2,61E-04	-2,76E-02
POCP kg NMVOC eq.	1,06E-03	1,60E-04	4,27E-04	1,65E-03	3,11E-04	2,75E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,35E-05	0,00E+00	1,57E-02	-3,03E-01
ADP-minerals & metals kg Sb eq.	5,88E-07	5,98E-08	2,97E-06	3,62E-06	1,53E-07	-2,05E-09	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,81E-09	0,00E+00	1,57E-02	-3,03E-01
ADP-fossil MJ, net calorific value	7,70E+00	3,08E-01	1,44E+00	9,44E+00	7,45E-01	3,39E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,08E-02	0,00E+00	1,58E-02	-1,26E-01
WDP m3 world eq. Deprived	2,66E+00	1,77E-03	4,14E-02	2,70E+00	4,48E-03	-1,25E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,87E-04	0,00E+00	-8,89E-03	-2,39E-03

- GWP-total = Global Warming Potential total
- GWP-fossil = Global Warming Potential fossil fuels
- GWP-biogenic = Global Warming Potential biogenictotal
- 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 [1]
- ADP-fossil = Abiotic Depletion for fossil resources potential [1]
- WDP = Water (user) deprivation potential, deprivation-weighted water consumption [1]

**Disclaimer [1]:**

- 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 experience with the indicator.



**ENVIRONMENTAL IMPACT per functional unit or declared unit (additional indicators A2)**

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	9,63E-03	2,72E-04	2,77E-03	1,27E-02	5,27E-04	1,29E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,22E-05	0,00E+00	9,71E-04	-8,34E-05
IRP	kBq U235 eq.	1,74E-02	5,56E-04	9,88E-03	2,78E-02	1,24E-03	1,52E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,69E-05	0,00E+00	9,96E-04	-2,99E-03
ETP-fw	CTUe	1,20E+01	4,13E-02	7,56E-01	1,28E+01	1,08E-01	2,80E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,29E-03	0,00E+00	4,90E-02	-6,02E-02
HTP-c	CTUh	1,33E-03	1,26E-07	2,23E-06	1,34E-03	2,79E-07	7,12E-08	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,95E-08	0,00E+00	1,76E-08	-1,87E-08
HTP-nc	CTUh	3,39E-09	1,66E-10	2,08E-09	5,63E-09	4,20E-10	2,54E-10	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,82E-11	0,00E+00	3,06E-10	-1,31E-10
SQP	-	3,75E+00	2,44E-01	5,46E-01	4,54E+00	6,23E-01	1,01E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,16E-02	0,00E+00	6,69E-02	-4,93E-02

- 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, cancer [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 experience with the indicator.

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

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	1,94E-05	3,86E-04	7,64E-03	8,05E-03	9,89E-04	3,94E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,90E-05	0,00E+00	5,56E-04	0,00E+00
NHWD	kg	3,34E-04	2,82E-03	3,26E-03	6,41E-03	6,98E-03	7,30E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,80E-04	0,00E+00	4,49E-01	0,00E+00
RWD	kg	7,80E-02	0,00E+00	0,00E+00	7,80E-02	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,92E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	MJ	0,00E+00	0,00E+00	1,21E-02	1,21E-02	0,00E+00	2,79E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	1,63E-02	0,00E+00
ETE	MJ	0,00E+00	0,00E+00	1,11E-01	1,11E-01	0,00E+00	5,72E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	3,36E-02	0,00E+00

HWD = Hazardous Waste Disposed  
 NHWD = Non Hazardous Waste Disposed  
 RWD = Radioactive Waste Disposed  
 CRU = Components for reuse  
 MFR = Materials for recycling  
 MER = Materials for energy recovery  
 EEE = Exported Electrical Energy  
 ETE = Exported Thermal Energy

**RESOURCE USE per functional unit or declared unit (A1 and A2)**

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	1,01E+00	4,36E-03	3,45E-01	1,35E+00	1,10E-02	3,36E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,30E-04	0,00E+00	1,60E-01	-1,18E-02
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	1,60E-01	2,56E-02
PERT	MJ	1,01E+00	4,36E-03	3,45E-01	1,35E+00	1,10E-02	3,36E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,30E-04	0,00E+00	4,73E-04	-3,75E-02
PENRE	MJ	7,70E+00	3,08E-01	1,44E+00	9,44E+00	7,45E-01	3,39E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,08E-02	0,00E+00	3,17E-02	-4,29E-01
PENRM	MJ	5,84E-06	0,00E+00	0,00E+00	5,84E-06	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	7,70E+00	3,08E-01	1,44E+00	9,44E+00	7,45E-01	3,39E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,08E-02	0,00E+00	3,17E-02	-4,29E-01
SM	kg	0,00E+00	0,00E+00	1,81E-03	1,81E-03	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NSRF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m3	3,34E-01	7,54E-04	2,14E-02	3,56E-01	1,43E-03	5,42E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,12E-04	0,00E+00	5,84E-04	-4,26E-04

- PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials
- PERM = Use of renewable primary energy resources used as raw materials
- PERT = Total use of renewable primary energy resources
- PENRE = Use of non-renewable primary energy 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
- NSRF = Use of non-renewable secondary fuels
- FW = Use of net fresh water

 **BIOGENIC CARBON CONTENT per functional unit or declared unit (A1 and A2)**

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
BCCpr	kg C	6,18E-03	0,00E+00	0,00E+00	6,18E-03	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
BCCpa	kg C	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

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



## CALCULATION RULES

### Cut off criteria

Some cut-offs were applied to the study. During the manufacturing process, the input of consumables and disposed packaging from the raw materials is cut off from the system boundaries due to lack of data on the composition of waste. Furthermore, brushes, clothes, buckets etc. used during the application process are excluded from the assessment since they are considered capital goods. EUR-pallets were not modelled as a separate input in the manufacturing process, as these are generally reused over several years. Therefore, the materials used for the pallets are cut-off. No other cut-offs of outputs, raw materials, or other inputs were made at any life cycle stage.

### Data quality and data collection period

Specific data was collected from AkzoNobel through a questionnaire, including inquiries about product characteristics and packaging, production information and end-of-life. The data collection period for specific data was the year 2024. 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 and the Product Environmental Footprint method (European Commission, 2021). Generic data (i.e. upstream acquisition and production of raw materials, transport, waste treatment processes) was selected from Ecoinvent 3.11 database. In the case of missing data, a relevant proxy was searched and adjusted to the corresponding unit process. In the case of missing data, a relevant proxy was searched and adjusted to the corresponding unit process. The characterisation factors from the EN1504+A2:2019 method (2020) are used for all core and optional indicators, which follow the characterisation factors as set by the Joint Research Centre (JRC) from the European Commission (EC) and are based on EF 3.1. The data quality assessment includes time-related coverage, geography coverage, and technology coverage, and is based on the Data quality criteria from Annex E, Table E.2 of EN15804+A2:2019.

### 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 production of paint comprises only of the mixing ingredients. Therefore, the environmental impact is expected to be related to the mass of the products.

## 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 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. Primary data is used for the transportation distances of raw materials, default values in Ecoinvent market for datasets were used for packaging raw materials.

Transport of raw materials to manufacturing site	Distance	Unit
Raw materials - Lorry >32t	741	km
Raw materials - Ship, freight, sea container ship	9340	km
Packaging material - Lorry >32t	250	km

### A3. Manufacturing

This module covers manufacturing 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 accounted for.

Data regarding paint production was provided for the manufacturing site where the coatings are produced in Amata, VN, Angered, SE, Bangalore, IN, Cikarang, ID, Houston, USA, Sunshine, AU and Suzhou, CN. Primary data and site-specific data was provided for the consumption of utilities and product packaging. The electricity is modelled as renewable energy or the market for electricity depending on the production location. The renewable electricity is modelled according to the relevant GoOs when available. For the manufacturing processes, the electricity generation takes place within the geographical scope of the country. For this the Ecoinvent 3.11 datasets for solar, wind, hydro and market for medium voltage electricity are used. For upstream (raw material processes) and downstream processes (application, use, and waste processing) generic data is used when no specific data was available.

For upstream (raw material processes) and downstream processes (waste processing) generic data is used when no specific data was available. 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. Primary data for AkzoNobel is used for the transportation distances.

Transport of products to Point of Sale	Distance	Unit
Factory to Regional Distribution Centre - Lorry >32t	918	km
Regional Distribution Centre to Point of Sale - Lorry >32 t	733	km
Regional Distribution Centre to Point of Sale - Ship, freight, sea container ship	88	km
Regional Distribution Centre to Point of Sale - Freight train	252	km

### A5. Application and use

This module includes the environmental aspects and impacts associated with the application and of the paint. The energy required during the application of this paint is included, however, 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. As no primary data was available for the transportation distances, default values from the PEF CR Guidance document were used.

Energy use for application and transport of application waste		Unit
Electricity	0,014	kWh/kg
Application waste to EoL - Lorry >32t	100	km

### C3. Waste processing and C4. Disposal

The end of life stage is encompassed in these modules. It is assumed that paint is used as exterior paint and that part of the paint is lost during application. The applied paint is then disposed of with the substrate on which it has been applied.

EoL		Unit
to Landfill	88	%
to Incineration with energy recovery	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

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## REMARKS

None

