SHERWIN-WILLIAMS

**Environmental**
**Product**
**Declaration**

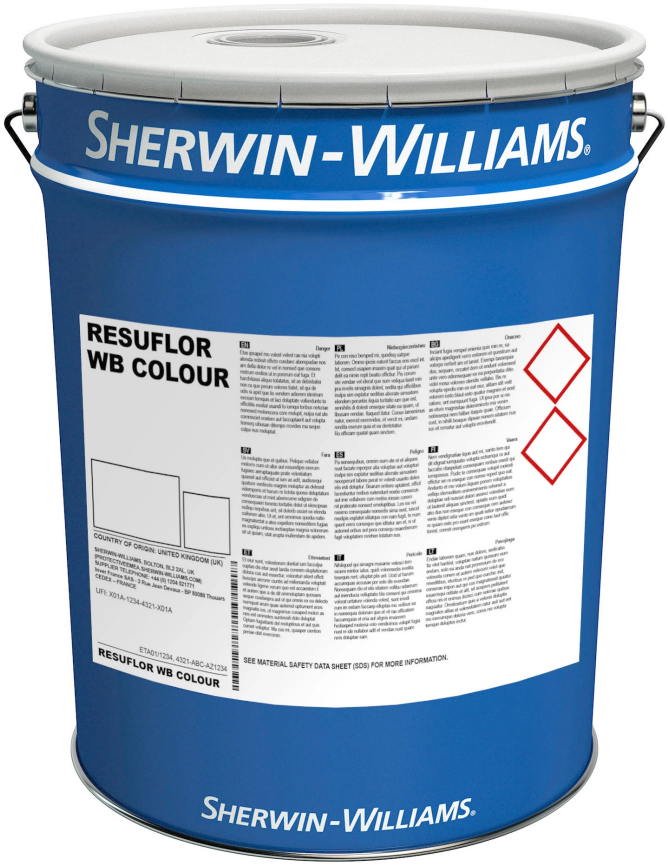
ISO14025+EN15804+A2 Environmental Performance Assessment Method for Construction Works

This declaration is for:

**Resuflor WB Colour**

Provided by:

**Sherwin-Williams UK Ltd, Protective & Marine Division**




MRPI® registration:

**00029.2026.1.0**

Program operator:

**Stichting MRPI**

Publisher:

**Stichting MRPI**

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**03-11-2031**

ECO PLATFORM EPD VERIFIED

MRPI milieu relevante product informatie

## COMPANY INFORMATION

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## MRPI® REGISTRATION

00029.2026.1.0

## DATE OF THIS ISSUE

03-11-2026

## EXPIRY DATE

03-11-2031

## SCOPE OF DECLARATION

This MRPI®-EPD certificate is verified by Vroege, Gert-Jan,Eco-Intelligence. The LCA study has been done by Wiersema, Brienne, Ecomatters B.V.. The certificate is based on a LCA-dossier According to ISO14025+EN15804+A2 Environmental Performance Assessment Method for Construction Works. It is verified according to the. 'Verification protocol for MRPI LCA project report & EPD 16th of April 2026, V. 5.3'. EPDs of construction products may not be comparable if they do not comply with EN15804+A2.

## PROGRAM OPERATOR

Stichting MRPI
Kingsfordweg 151
1043 GR
Amsterdam

## PRODUCT

Resuflor WB Colour

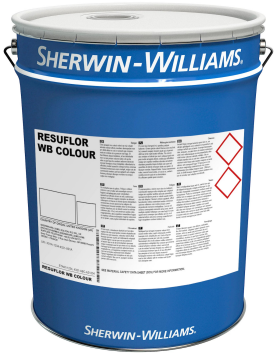
## DECLARED AND FUNCTIONAL UNIT

Area (1 m2)

## DESCRIPTION OF PRODUCT

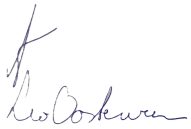
Two-pack water-based epoxy coloured floor coating.

## VISUAL PRODUCT




## MORE INFORMATION

https://industrial.sherwin-williams.com/emeai/gb/en/resin-flooring/catalog/product/systems-by-industry/products/epoxy.25052026/resuflor-wb-colour.15633024.html

| | |
|---|---|
| **Ing. L. L. Oosterveen MSc. MBA**<br>**Managing Director MRPI** | Demonstration of verification |
| | CEN standard EN15804 serves as the core PCR [1] |
|  | Independent verification of the declaration and data<br>ISO14025+EN15804+A2 Environmental Performance Assessment Method for Construction Works<br>Internal: External: X |
| | Independent verifier: Vroege, Gert-Jan, Eco-Intelligence.<br>Cerified NMD verifier. |
| |  |
| | [1] PCR = Product Category Rules |

## DETAILED PRODUCT DESCRIPTION

Resuflor™ WB Colour is a two-pack water-based epoxy resin for flooring and walls with very low VOC content. The product has excellent adhesion to concrete and other surfaces providing attractive, hard wearing dust-free finishes. Resuflor™ WB Colour industrial resin flooring can act as a curing membrane to increase the hardness of concrete by allowing full hydration of cement. Resuflor™ WB Colour can be applied to new concrete, 7 days after being poured.

Typical Use:
For use as an undercoat/top coat in industrial environments onto concrete substrates.

Application:
Applied by the following methods: brush, roller or squeegee.

Packaging:
The coating is delivered in drums with a weight of 5 kg. The packaging weight of the product is 0,106 kg per kg of coating.

Production process and conditions of delivery:
Part A is manufactured using a high speed dispersion method. Part B is manufactured by filling off the relevant curing agent. It is supplied as a two pack product to be mixed immediately prior to use.

| Coating characteristics | Value | Unit |
|---|---|---|
| Type of coating | Waterborne | |
| Weight per declared unit | 0.151 | kg/m2 over the service life |
| Lifetime | 5 | years |
| Density | 1.12 | kg/L |
| Coverage | 7.42 | m2/L (for 1 layer) |
| Number of layers | 1 | |
| VOC content | 10 | g/L coating |

| Component (> 1%) | (kg / %) |
|---|---|
| Resin | Confidential |
| Additives | Confidential |
| Pigments | Confidential |
| Water | Confidential |
| Curing Agent | Confidential |

| Biogenic carbon content | Unit | Amount of uptake per functional unit |
|---|---|---|
| Biogenic carbon content in product | Kg C | 0.003 |
| Biogenic carbon content in accompanying packaging | Kg C | 0 |
| Note that 1 kg of biogenic carbon is equivalent to 44 / 12 kg of CO2. | | |

## SCOPE AND TYPE

Background database: Ecoinvent 3.12
Method: Cut-off by classification
Software: Sphera LCA for Experts 10.9.5
Characterization factor: Environmental Footprint (EF) 3.1

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.

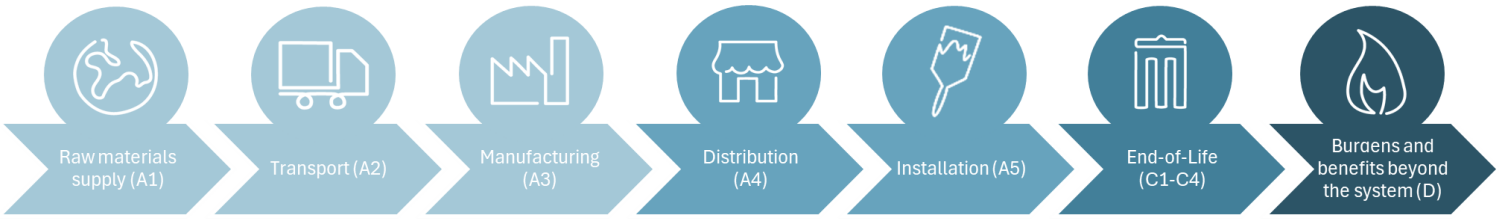
This EPD is representative for products produced in Bolton, United Kingdom. The application market is for customers in Europe, where it is also expected to reach its end-of-life fate.

The software LCA for Experts 10.9.5 Professional is used to perform the LCA. The background databases used in the model are Ecoinvent 3.12 (published 5-11-2025) and CEPE LCI 2024 database (published June 2024).

This study is a specific dataset EPD. 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 Assesed
ND = Not Declared




## REPRESENTATIVENESS (IF AVERAGE)

This is a product specific EPD for Resuflor WB Colour.

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## 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 | 5.16E-01 | 7.93E-03 | 1.36E-01 | 6.60E-01 | 1.29E-02 | 9.86E-03 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 6.18E-04 | 0.00E+00 | 2.13E-02 | -9.60E-03 |
| **GWP-fossil** | kg CO2 eq | 4.98E-01 | 7.92E-03 | 1.33E-01 | 6.39E-01 | 1.29E-02 | 9.75E-03 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 6.18E-04 | 0.00E+00 | 4.58E-04 | -9.61E-03 |
| **GWP-biogenic** | kg CO2 eq | -2.08E-02 | 4.25E-06 | 2.95E-03 | -1.79E-02 | 6.95E-06 | 1.04E-04 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 3.32E-07 | 0.00E+00 | 2.08E-02 | 1.10E-05 |
| **GWP-luluc** | kg CO2 eq | 3.87E-02 | 2.78E-06 | 1.08E-04 | 3.88E-02 | 4.53E-06 | 7.62E-06 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 2.16E-07 | 0.00E+00 | 2.58E-07 | -2.69E-06 |
| **ODP (A2)** | kg CFC11 eq | 1.17E-08 | 1.80E-10 | 2.07E-09 | 1.39E-08 | 2.94E-10 | 1.22E-10 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 1.40E-11 | 0.00E+00 | 1.34E-11 | -1.70E-10 |
| **AP mol H+** | mol H+ eq | 2.09E-03 | 2.56E-05 | 5.98E-04 | 2.71E-03 | 4.19E-05 | 1.90E-05 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 2.00E-06 | 0.00E+00 | 3.16E-06 | -2.42E-05 |
| **EP-freshwater** | kg P eq | 4.28E-05 | 5.64E-07 | 4.42E-05 | 8.76E-05 | 9.22E-07 | 4.48E-06 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 4.40E-08 | 0.00E+00 | 4.03E-08 | -3.00E-06 |
| **EP-marine** | kg N eq | 5.29E-04 | 9.09E-06 | 1.18E-04 | 6.56E-04 | 1.48E-05 | 3.82E-06 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 7.09E-07 | 0.00E+00 | 1.26E-06 | -6.61E-06 |
| **EP-terrestrial** | mol N eq | 4.10E-03 | 9.78E-05 | 1.21E-03 | 5.41E-03 | 1.60E-04 | 3.25E-05 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 7.63E-06 | 0.00E+00 | 1.36E-05 | -6.93E-05 |
| **POCP kg NMVOC** | kg NMVOC eq | 1.17E-03 | 4.23E-05 | 4.38E-04 | 1.65E-03 | 6.91E-05 | 1.36E-03 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 3.30E-06 | 0.00E+00 | 4.92E-06 | -2.50E-05 |
| **ADP-minerals & metals** | kg Sb eq | 4.97E-07 | 2.25E-08 | 3.25E-06 | 3.77E-06 | 3.67E-08 | 2.41E-08 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 1.75E-09 | 0.00E+00 | 6.82E-10 | -5.32E-09 |
| **ADP-fossil** | MJ, net calorific value | 7.24E+00 | 1.16E-01 | 1.84E+00 | 9.19E+00 | 1.89E-01 | 9.12E-02 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 9.02E-03 | 0.00E+00 | 1.12E-02 | -1.47E-01 |
| **WDP** | m3 world eq. Deprived | 6.65E+00 | 6.76E-04 | 4.55E-02 | 6.70E+00 | 1.10E-03 | 1.91E-03 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 5.27E-05 | 0.00E+00 | 4.97E-04 | -8.32E-04 |

| | |
|---|---|
| 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 |
| AP-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 withthe indicator.

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## 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 | 3.41E-08 | 6.18E-10 | 7.29E-09 | 4.20E-08 | 1.01E-09 | 1.01E-10 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 4.81E-11 | 0.00E+00 | 7.19E-11 | -4.74E-10 |
| **IRP** | kBq U235 eq | 1.29E-02 | 1.24E-04 | 1.48E-02 | 2.78E-02 | 2.03E-04 | 1.49E-03 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 9.67E-06 | 0.00E+00 | 6.46E-06 | -3.02E-04 |
| **ETP-fw** | CTUe | 1.50E+01 | 1.52E-02 | 8.07E-01 | 1.58E+01 | 2.49E-02 | 1.17E-01 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 1.19E-03 | 0.00E+00 | 3.07E-02 | -2.10E-02 |
| **HTP-c** | CTUh | 1.26E-10 | 1.79E-12 | 2.01E-09 | 2.14E-09 | 2.92E-12 | 1.05E-11 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 1.39E-13 | 0.00E+00 | 9.51E-14 | -9.97E-12 |
| **HTP-nc** | CTUh | 3.50E-09 | 6.02E-11 | 2.28E-09 | 5.84E-09 | 9.83E-11 | 4.62E-11 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 4.69E-12 | 0.00E+00 | 1.93E-12 | -2.14E-11 |
| **SQP** | - | 2.45E+00 | 1.17E-01 | 5.34E-01 | 3.10E+00 | 1.90E-01 | 1.27E-02 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 9.08E-03 | 0.00E+00 | 2.20E-02 | -1.52E-02 |

PM = Potential incidence of disease due to particulate matter 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.

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## OUTPUT FLOWS AND WASTE CATEGORIES PER FUNCTIONAL 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **HWD** | kg | 1.77E-03 | 6.51E-04 | 1.50E-02 | 1.74E-02 | 1.06E-03 | 7.51E-03 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 5.08E-05 | 0.00E+00 | 3.64E-05 | -1.27E-03 |
| **NHWD** | kg | 9.85E-03 | 1.35E-02 | 5.57E-02 | 7.91E-02 | 2.21E-02 | 2.38E-02 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 1.05E-03 | 0.00E+00 | 1.47E-01 | -1.53E-02 |
| **RWD** | kg | 5.05E-07 | 0.00E00 | 0.00E+00 | 5.05E-07 | 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 | 0.00E00 | 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 | 0.00E00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-02 | 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 | 0.00E00 | 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 | 0.00E00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.91E-03 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| **ETE** | MJ | 0.00E+00 | 0.00E00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.27E-02 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 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

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## RESOURCE USE PER FUNCTIONAL 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 | 5.73E-01 | 1.80E-03 | 2.52E-01 | 8.27E-01 | 2.94E-03 | 1.67E-02 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 1.40E-04 | 0.00E+00 | 1.05E-04 | -3.59E-03 |
| **PERM** | MJ | 0.00E+00 | 0.00E00 | 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 |
| **PERT** | MJ | 5.74E-01 | 1.80E-03 | 2.52E-01 | 8.28E-01 | 2.94E-03 | 1.67E-02 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 1.40E-04 | 0.00E+00 | 1.05E-04 | -3.59E-03 |
| **PENRE** | MJ | 7.23E+00 | 1.16E-01 | 1.84E+00 | 9.19E+00 | 1.89E-01 | 9.12E-02 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 9.02E-03 | 0.00E+00 | 1.12E-02 | -1.47E-01 |
| **PENRM** | MJ | 0.00E+00 | 0.00E00 | 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 |
| **PENRT** | MJ | 7.24E+00 | 1.16E-01 | 1.84E+00 | 9.19E+00 | 1.89E-01 | 9.12E-02 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 9.02E-03 | 0.00E+00 | 1.12E-02 | -1.47E-01 |
| **SM** | kg | 0.00E+00 | 0.00E00 | 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 |
| **RSF** | MJ | 0.00E+00 | 0.00E00 | 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 |
| **NRSF** | MJ | 0.00E+00 | 0.00E00 | 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 | 2.30E-01 | 1.57E-05 | 1.06E-03 | 2.31E-01 | 2.57E-05 | 4.44E-05 | ND | ND | ND | ND | ND | ND | ND | 0.00E+00 | 1.23E-06 | 0.00E+00 | 1.16E-05 | -1.94E-05 |

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
NRSF = Use of non-renewable secondary fuels
FW = Use of net fresh water

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## CALCULATION RULES

Cut-off criteria:
Some cut-offs were applied in this study. During the manufacturing process, the input of consumables and the packaging waste from raw materials were excluded from the system boundaries due to a lack of data on the composition of this waste. A negligible amount of waste steel generated during manufacturing is also excluded. Reconditioned drums 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 drums are cut-off, but all inputs required for reconditioning the drums in the manufacturing site are included. Moreover, secondary packaging materials such as wooden pallets and packaging for stabilisation of coating products during transport are excluded from the system boundaries. The production equipment and infrastructure is excluded from the system boundaries. Similarly, brushes, clothes, buckets etc. used during the application process are excluded from the assessment since they are considered capital goods.

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 coating products for each site. The production of coating comprises mostly the mixing of ingredients. Therefore, the environmental impact is expected to be related to the mass of the products.

## DATA QUALITY

Data quality was assessed following the criteria of the UN Environment Global Guidance on LCA database development, as presented in Annex Table E.1 in the EN15804+A2 standard.

Data quality and data collection period:
Specific data was collected from Sherwin-Williams through a questionnaire, including inquiries about coating characteristics and packaging, production information and end-of-life scenario's. The data collection period for specific data was the year 2023. This primarily covers stages A1 and A3, where the geographical, technical and temporal representativeness was assessed to be "Good".

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 Category Rules for Resinous Floor Coatings v1 – 2025 (NSF International, 2025). Generic data (i.e. upstream acquisition and production of raw materials, transport, waste treatment processes) was selected from ecoinvent 3.12 and CEPE v4 2024 database. In the case of missing data, a relevant proxy was searched and adjusted to the corresponding unit process.
The geographical, technical and temporal representativeness for the applicable life-cycle stages where the generic values were used was assessed as "Good".

## POWER MIX

The electricity is modelled using a location-based approach. For manufacturing, the residual mix for the relevant geography is taken and for the application the market group for electricity for Europe is taken (ecoinvent 3.12). Electricity consumption in the manufacturing does not account for more than 30% of the total energy use in module A1-A3.

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

A2. Transport of raw materials to manufacturer
This includes the transport distance of the raw materials to the manufacturing facility via road and sea. As no primary data was available for the transportation distances, the default values from the PEFCR for Decorative Paints were used. Raw materials are transported by lorry (>32t) over a distance of 460 km, while packaging materials are transported by lorry (>32t) over a distance of 250 km. For some coatings the aggregate and/or colour part is bought in as a finished good from Derbyshire, United Kingdom and Chicago, United States respectively. For these coatings, for the share of aggregate and/or colour, a shipping distance of 105km per lorry and/or 7000km by ship is used respectively.

A3. Manufacturing
This module covers manufacturing and includes all processes linked to production such as mixing and packing. Use of electricity, fuels, waste and direct emissions associated to the production of the coating are accounted for.

Data regarding coating production was provided for the manufacturing site in Bolton, United Kingdom. Primary data and site-specific data was provided for the consumption of utilities and product packaging. For upstream (raw material processes) and downstream processes (application and waste processing) generic data is used when no specific data was available.

A4. Transport to Regional Distribution Centre (RDC) and the Point of Sale (PoS)
All coatings are transported from the production facility into a distribution center and then finally to the customer. As no primary data was available for the transportation distances, the default values from the PEFCR for Decorative Paints were used. All coatings are transported from the factory to a regional distribution centre by lorry (>32t) over a distance of 250 km, after which they are transported to the point of sale over a further distance of 370 km, also by lorry (>32t).

A5. Application
This module includes the environmental aspects and impacts associated with the application of the coating. It is assumed that 2% of coating is lost during application (e.g., wet paint remaining in containers), in accordance with the PCR for Resinous Floor Coatings. This waste coating is classified as hazardous waste and is assumed to be incinerated. All VOC emissions related to the application process are included and are modelled as direct emissions to the environment. Biocide emissions are not included since these coatings are for interior use so no leaching of biocides occurs during application.

C2. Transport to End-of-life scenario (landfill)
This module includes the transportation of the coating along with the substrates to the waste treatment facilities and end-of-life destination. As no primary data was available for the transportation distances, the default values from the PEFCR for Decorative Paints were used. All coating application waste and packaging waste is transported over a distance of 80 km by a lorry (>32t).

C3. Waste processing and C4. Disposal
The applied coating is disposed together with the substrate on which it has been applied at the end-of-life. The disposal excludes the water content of the coating, as the coating has dried during application. Biocide emissions are considered leached during end-of-life. A waste treatment scenario of 100% landfill is applied, which is based on the PCR for Resinous Floor Coatings.

## DECLARATION OF SVHC

None of the raw materials are both listed on the “Candidate List of Substances of Very High Concern for authorisation” and present above the threshold (substance > 0.1 w%) stated by the European Chemicals Agency.

## REFERENCES

Alanya-Rosenbaum, S., & Bergman, R. D. (2020). Cradle-to-grave life-cycle assessment of wooden pallet production in the United States. Res. Pap. FPL-RP-707. Madison, WI: US Depart-ment of Agriculture, Forest Service, Forest Products Laboratory. 82 p., 707, 1-80.

CEPE v4, Raw materials LCI database for the European coatings and printing ink industries, 2024

EN 15804:2012+A2:2019 Sustainability of construction works. Environmental product declara-tions. Core rules for the product category of construction products, of 11/2019.

Eurostat, n.d. Waste statistics - packaging waste. European Commission. Retrieved September 2025, from https://ec.europa.eu/eurostat/cache/metadata/en/env_waspac_esms.htm

ISO 14040:2006 Environmental management — Life cycle assessment — Principles and frame-work

ISO 14044:2006 Environmental management — Life cycle assessment — Requirements and guidelines

NSF International, 2025. Product Category Rules for Environmental Product Declarations: PCR for Resinous Floor Coatings v1 – 2025 Extension, from: https://d2evkimvhatqav.cloudfront.net/documents/PCR-Product-Category-Rules/NSF-1111-25Ext.pdf?v=1741862731

Product Environmental Footprint Category Rules - Decorative Paints version 1.0, 2018. Devel-oped by the Technical Secretariat Decorative Paints of the Europe an Council of the Paint, Print-ing Ink and Artists' Colours Industry.

Product Environmental Footprint Category Rules (PEFCR) Guidance - version 6.3, 2017. Devel-oped by the European Commission.

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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