



**Environmental  
Product  
Declaration**

According to ISO14025 and EN15804+A2  
(+indicators A1)



This declaration is for:  
**Acospray Green Line**

Provided by:  
**Acosorb international B.V.**

**acosorb**  
seamless acoustical spray-and plasterwork



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

MRPI® registration  
**1.1.00701.2024**  
date of first issue  
**22-11-2024**  
date of this issue  
**22-11-2024**  
expiry date  
**22-11-2029**





**COMPANY INFORMATION**



Acosorb international B.V.  
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**PRODUCT**

Acospray Green Line

**DECLARED UNIT/FUNCTIONAL UNIT**

1m<sup>2</sup>

**DESCRIPTION OF PRODUCT**

Acoustic ceiling finish

**MRPI® REGISTRATION**

1.1.00701.2024

**DATE OF ISSUE**

22-11-2024

**EXPIRY DATE**

22-11-2029

**VISUAL PRODUCT**



**SCOPE OF DECLARATION**

This MRPI®-EPD certificate is verified by Gert-Jan Vroege, Eco Intelligence. The LCA study has been done by Arjan Zuidema, Flux Partners. The certificate is based on an LCA-dossier according to EN15804+A2 (+indicators A1). 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.

**MORE INFORMATION**

<https://www.acosorb.nl>

**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

ISO14025 and EN15804+A2 (+indicators A1)

internal:

external: x

Third party verifier: Gert-Jan Vroege, Eco Intelligence

[a] PCR = Product Category Rules



**DETAILED PRODUCT DESCRIPTION**

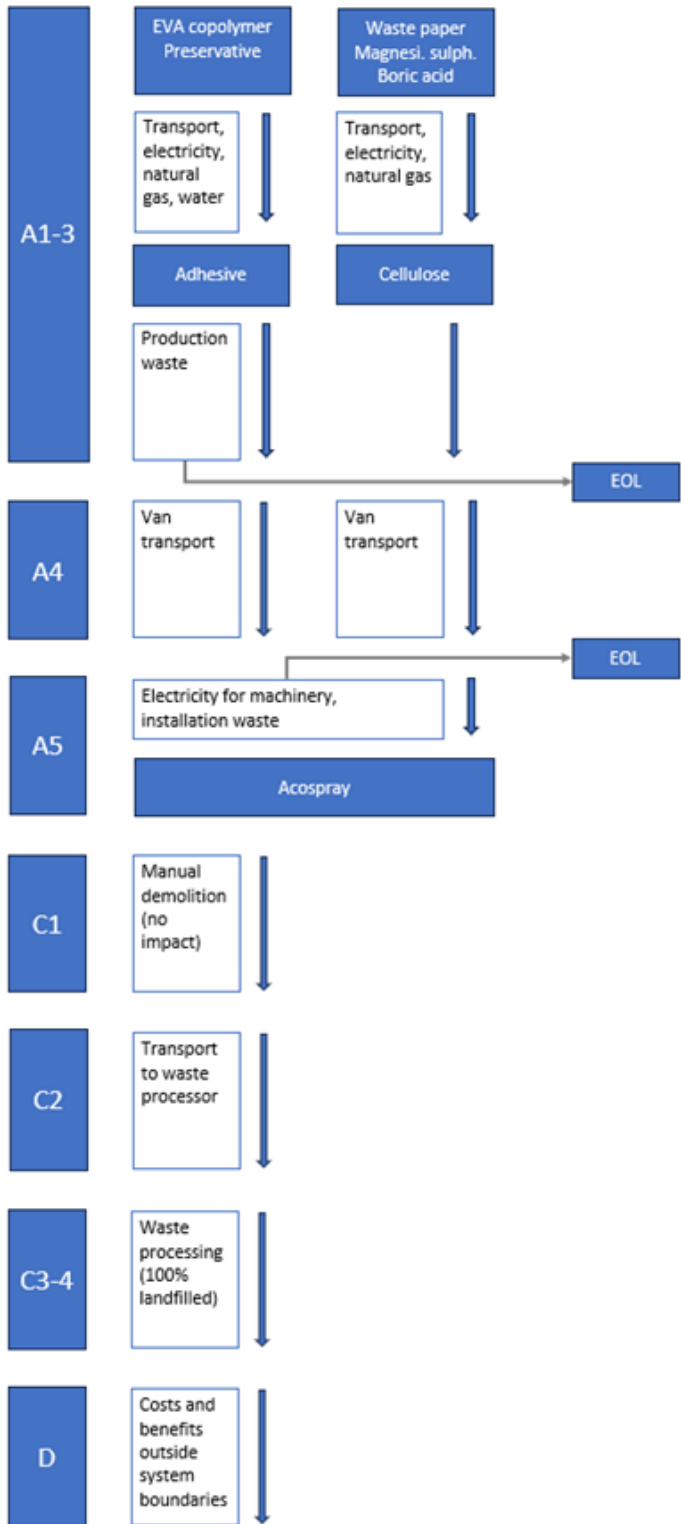
Acospray is made from adhesive, cellulose and water. The cellulose is made from 100% post-consumer wastepaper for the Green line. At the application location, Acosorb employees mix the paper pulp with the adhesive and water, after which it is applied to walls and/or ceilings with a spraying machine. Acospray can last up to 50 years.

Component (> 1%)	kg / %
Cellulose	70-100%
Adhesive	0-30%
Water	0-30%

**SCOPE AND TYPE**

The suppliers for Acospray are in the Czech Republic and Netherlands. The product is installed by Acosorb in buildings all over the world. For disposal it is scraped of the ceilings or walls and incinerated. Ecolnvent 3.6 is used for modeling this product.

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USER 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	X	X	X	X	X	ND	ND	X	X	X	X	X
X= Modules Assessed ND= Not Declared																



**REPRESENTATIVENESS**

**ENVIRONMENT IMPACT per functional unit or declared unit (core indicators A1)**

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
ADPE	kg Sb eq.	1,15 E-05	3,97 E-06	2,43 E-07	1,57 E-05	4,06 E-06	1,68 E-06	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	5,67 E-07	9,44 E-07	0,00 E+00	3,00 E-06
ADPF	MJ	2,17 E+01	2,14 E+00	-7,50 E-01	2,31 E+01	2,58 E+00	2,15 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,39 E-01	5,99 E-01	0,00 E+00	-3,71 E+00
GWP	kg CO2 eq.	8,14 E-01	1,43 E-01	8,54 E-02	1,04 E+00	1,76 E-01	1,53 E-01	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	2,22 E-02	5,06 E-01	0,00 E+00	-1,72 E-01
ODP	Kg CFC11 eq.	6,64 E-08	2,61 E-08	-7,55 E-09	8,50 E-08	3,01 E-08	1,10 E-08	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,94 E-09	1,70 E-08	0,00 E+00	-2,46 E-08
POCP	Kg ethene eq.	5,60 E-04	7,11 E-05	1,63 E-05	6,48 E-04	1,68 E-04	5,52 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	0,00 E+00	0,00 E+00	1,34 E-05	2,55 E-05	0,00 E+00	-8,78 E-05
AP	kg SO2 eq.	3,39 E-03	3,39 E-04	5,80 E-05	3,79 E-03	7,83 E-04	3,62 E-04	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	9,75 E-05	3,46 E-04	0,00 E+00	-3,71 E-04
EP	kg (PO4) 3- eq.	4,71 E-04	5,25 E-05	9,06 E-06	5,33 E-04	1,35 E-04	5,43 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	0,00 E+00	0,00 E+00	1,92 E-05	9,60 E-05	0,00 E+00	-1,19 E-04

**Toxicity indicators for Dutch market**

HTP	kg DCB-Eq	2,03 E-01	5,72 E-02	7,02 E-03	2,67 E-01	6,48 E-02	4,26 E-02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	9,34 E-03	9,64 E-02	0,00 E+00	-5,76 E-02
FAETP	kg DCB-Eq	6,30 E-03	1,58 E-03	1,73 E-03	9,61 E-03	1,61 E-03	1,38 E-03	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	2,73 E-04	5,06 E-03	0,00 E+00	-2,83 E-04
MAETP	kg DCB-Eq	1,77 E+01	6,06 E+00	2,67 E+00	2,64 E+01	5,49 E+00	4,65 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	9,81 E-01	3,16 E+01	0,00 E+00	6,27 E-01
TETP	kg DCB-Eq	9,59 E-04	2,04 E-04	2,46 E-05	1,19 E-03	3,11 E-04	7,83 E-04	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,30 E-05	3,36 E-04	0,00 E+00	-3,10 E-04
ECI	euro	8,16 E-02	1,51 E-02	5,51 E-03	1,02 E-01	2,01 E-02	1,42 E-02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	2,67 E-03	3,96 E-02	0,00 E+00	-1,68 E-02
ADPF	kg Sb eq.	1,04 E-02	1,03 E-03	-3,61 E-04	1,11 E-02	1,24 E-03	1,03 E-03	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,63 E-04	2,88 E-04	0,00 E+00	-1,79 E-03

- 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
- HTP = Human Toxicity Potential
- FAETP = Fresh water aquatic ecotoxicity potential
- MAETP = Marine aquatic ecotoxicity potential
- TETP = Terrestrial ecotoxicity potential
- ECI = Environmental Cost Indicator
- ADPF = Abiotic Depletion Potential for fossil resources expressed in [kg Sb-eq.]

**ENVIRONMENT 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.	-3,32 E-01	1,44 E-01	8,48 E-02	-1,03 E-01	1,79 E-01	2,28 E-01	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	2,24 E-02	1,97 E+00	1,17 E+00	-9,91 E-01
GWP-fossil	kg CO2 eq.	8,37 E-01	1,44 E-01	8,54 E-02	1,07 E+00	1,79 E-01	1,55 E-01	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	2,24 E-02	5,08 E-01	0,00 E+00	-1,75 E-01
GWP-biogenic	kg CO2 eq.	-1,17 E+00	7,74 E-05	-7,11 E-04	-1,17 E+00	3,69 E-04	7,30 E-02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,03 E-05	1,46 E+00	1,17 E+00	-8,16 E-01
GWP-luluc)	kg CO2 eq.	5,69 E-04	5,12 E-05	1,90 E-05	6,39 E-04	1,08 E-04	5,50 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	0,00 E+00	0,00 E+00	8,20 E-06	4,32 E-05	0,00 E+00	9,55 E-05
ODP	kg CFC11 eq.	6,74 E-08	3,27 E-08	-8,64 E-09	9,14 E-08	3,73 E-08	1,20 E-08	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	4,94 E-09	1,71 E-08	0,00 E+00	-2,63 E-08
AP	mol H+ eq.	4,05 E-03	4,13 E-04	6,99 E-05	4,53 E-03	1,01 E-03	4,43 E-04	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,30 E-04	4,62 E-04	0,00 E+00	-7,78 E-04
EP-freshwater	kg PO4 eq.	4,25 E-05	1,15 E-06	7,79 E-07	4,44 E-05	3,02 E-06	3,96 E-06	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	2,26 E-07	1,69 E-06	0,00 E+00	6,85 E-06
EP-marine	kg N eq.	6,49 E-04	8,18 E-05	1,19 E-05	7,42 E-04	3,00 E-04	8,88 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	0,00 E+00	0,00 E+00	4,57 E-05	1,67 E-04	0,00 E+00	-1,82 E-04
EP-terrestrial	mol N eq.	7,23 E-03	9,15 E-04	1,32 E-04	8,27 E-03	3,35 E-03	9,92 E-04	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	5,04 E-04	1,77 E-03	0,00 E+00	-4,88 E-03
POCP	kg NMVOC eq.	2,66 E-03	3,51 E-04	5,91 E-05	3,07 E-03	1,09 E-03	3,25 E-04	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,44 E-04	4,47 E-04	0,00 E+00	-4,89 E-04
ADP-minerals & metals	kg Sb eq.	1,07 E-05	3,97 E-06	2,43 E-07	1,49 E-05	4,06 E-06	1,63 E-06	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	5,67 E-07	9,44 E-07	0,00 E+00	3,00 E-06
ADP-fossil	MJ, net calorific value	2,16 E+01	2,18 E+00	-6,20 E-01	2,31 E+01	2,65 E+00	2,09 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,37 E-01	5,35 E-01	0,00 E+00	-3,15 E+00
WDP	m3 world eq. Deprived	4,58 E-01	6,16 E-03	1,23 E-02	4,77 E-01	1,11 E-02	1,85 E-01	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,21 E-03	5,79 E-02	0,00 E+00	6,40 E-01

- 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 experience with the indicator.

### ENVIRONMENT 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	3,32 E-08	9,14 E-09	8,73 E-10	4,32 E-08	1,77 E-08	4,17 E-09	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	2,01 E-09	3,53 E-09	0,00 E+00	2,03 E-08
IRP	kBq U235 eq.	3,57 E-02	9,51 E-03	4,10 E-04	4,56 E-02	1,21 E-02	4,58 E-03	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,41 E-03	1,84 E-03	0,00 E+00	3,66 E-03
ETP-fw	CTUe	1,09 E+01	1,75 E+00	3,03 E-01	1,30 E+01	2,90 E+00	1,99 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,01 E-01	7,84 E+00	0,00 E+00	-1,25 E+01
HTP-c	CTUh	2,40 E-10	4,88 E-11	8,78 E-12	2,98 E-10	2,84 E-10	1,01 E-10	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	9,76 E-12	1,68 E-10	0,00 E+00	-5,06 E-11
HTP-nc	CTUh	8,18 E-09	1,85 E-09	3,40 E-10	1,04 E-08	3,65 E-09	2,57 E-09	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,29 E-10	5,39 E-09	0,00 E+00	-5,12 E-09
SQP	----	2,56 E+00	1,52 E+00	1,14 E-01	4,20 E+00	1,25 E+00	3,69 E-01	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	2,93 E-01	1,72 E-01	0,00 E+00	5,70 E+01

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 experience 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	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	1,13 E-05	5,70 E-06	-1,24 E-06	1,57 E-05	5,11 E-05	5,09 E-06	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	8,55 E-07	1,09 E-06	0,00 E+00	-4,11 E-06
NHWD	kg	8,52 E-02	1,06 E-01	6,00 E-03	1,97 E-01	7,79 E-02	2,08 E-02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	2,14 E-02	2,83 E-02	0,00 E+00	1,89 E-02
RWD	kg	3,39 E-05	1,48 E-05	1,21 E-07	4,88 E-05	1,78 E-05	4,94 E-06	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	2,22 E-06	1,72 E-06	0,00 E+00	2,88 E-06
CRU	kg	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
MFR	kg	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	4,15 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	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
MER	kg	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	2,41 E-06	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
EEE	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,63 E-04	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
ETE	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	2,81 E-04	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+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 / A2)

	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,99 E-03	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
PERM	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
PERT	MJ	8,49 E-01	3,11 E-02	2,71 E-02	9,07 E-01	7,09 E-02	6,88 E-02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	4,22 E-03	4,38 E-02	0,00 E+00	5,71 E+00
PENRE	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	6,59 E-01	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
PENRM	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
PENRT	MJ	2,31 E+01	2,31 E+00	-7,12 E-01	2,47 E+01	2,81 E+00	2,24 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,58 E-01	5,72 E-01	0,00 E+00	-3,53 E+00
SM	kg	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,24 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	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
RSF	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
NRSF	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
FW	m3	1,48 E-02	2,33 E-04	3,75 E-04	1,54 E-02	4,53 E-04	4,67 E-03	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	4,11 E-05	1,85 E-03	0,00 E+00	1,54 E-02

- 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

### BIOGENIC CARBON CONTENT 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	D
BBCpr	Kg C	3,18 E-01	0,00 E+00	0,00 E+00	3,18 E-01	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,18 E-01	0,00 E+00
BCCpa	kg C	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00

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





#### **CALCULATION RULES**

Input and output data are supplied by AcoSorb and their suppliers for materials, energy, direct emissions, production waste, and packaging.

For the model a layer thickness of 1 cm is used.

The following processes are not included in this LCA, because the contribution to the various environmental effects of these processes is expected to be less than 1%:

- Packaging of raw materials for glue and cellulose suppliers.
- Capital goods for the cellulose in Czech Republic and adhesive in Netherlands.

The data supplied is <2 Years old and is fully technological and geographical representative.

#### **SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION**

Acospray consists of adhesive and recycled paper pulp. The pulp is grounded and mixed with Magnesium Sulphate and Boric Acid in the Czech Republic. The adhesive is a vinyl acetate-ethylene (UAE) dispersion and is produced in the Netherlands. Both raw materials are transported to Acosorb in Amstelveen. From Amstelveen it is transported to the installation location, which is assumed to be a 75 km by small van. At the installation locating the cellulose and adhesive are mixed with water by an employee of Acosorb. With a electrical pump and blower machine the AcoSpray is applied. For the disposal no machine is used and the waste is incinerated at a waste disposal location.

#### **DECLARATION OF SVHC**

No substances that are listed in the latest "Candidate List of Substances of Very High Concern for authorisation" are included in the product that exceeds the limit for registration.

#### **REFERENCES**

Bepalingsmethode 'Milieuprestatie Bouwwerken' stichting Nationale milieudatabase versie 1.1, March 2022

'Forfaitaire waarden voor verwerking-scenario's einde leven behorende bij: Bepalingsmethode Milieuprestatie Bouwwerken', stichting Nationale milieudatabase, May 2022

'Notitie biogene koolstof behorende bij: Bepalingsmethode Milieuprestatie Bouwwerken', stichting Nationale milieudatabase, June 2024.

#### **REMARKS**

None.