

Result summary

# 044 Europrimer Multi

Forbo Eurocol Nederland B.V.

Calculation number:	EPD-NIBE-20201012-7759
Generation on:	30-11-2021
Issue date:	30-11-2021
Valid until:	30-11-2026
Status:	verified



R<THiNK

# 1 044 Europrimer Multi

## 1.1 COMPANY INFORMATION / DECLARATION OWNER

**Manufacturer:** Forbo Eurocol Nederland B.V.

**Production Location:** Eurocol Nederland B.V

**Address:** Industrieweg 1, 1521NA Wormerveer

**E-mail:** info.eurocol@forbo.com

**Website:** <https://www.forbo.com/eurocol/nl-nl/>

## 1.2 EPD INFORMATION

**Calculation number:** EPD-NIBE-20210224-17578

**Date of issue:** 30-11-2021

**End of validity:** 30-11-2026

**Version NIBE's EPD Application:** v2.0

**Version database:** v3.07 (2021-11-08)

**PCR:** NMD Determination method Environmental performance Construction works v1.0

July 2020 incl. amendment oct '20 + feb '21 + okt '21 & EN15804+A2

## 1.3 VERIFICATION OF THE DECLARATION

CEN standard EN 15804:2012 serves as the core PCR.

Independent verification of the declaration. according to EN ISO 14025:2010.

Internal  External

Zojuist een laatste check gedaan (steekproef) op alle reviewer versies en geen afwijkingen meer gevonden.



Third party verifier: Harry van Ewijk, SGS Search / Intron

## 1.4 DECLARED UNIT

### *Eén kilogram 044 Europrimer Multi*

De productie (A1-A3) van één kilogram 044 Europrimer Multi, inclusief verpakkingsmateriaal transport naar de bouwplaats (A4) en verwerking (A5). Tevens is de eindelevensduur (C2-D) beschouwd. Fase B1-B3 en C1 zijn beschouwd maar niet van toepassing, derhalve zijn er 0 waarden weergegeven.

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### 1.5 SCOPE OF DECLARATION

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	MND	MND	MND	MND	X	X	X	X	X

(X = included, MND = module not declared)

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### 1.6 PRODUCT DESCRIPTION

De 044 Europrimer Multi is een Universeel voorstrijkmiddel voor het verbeteren van de hechting van egalisatiemiddelen op alle steenachtige ondervloeren.

**Producttypering:**

Basis: Acrylaatdispersie.

Kleur: Wit.

Consistentie: Dun vloeibaar.

Zeer emissiearm

Ecode EC 1PLUS

Universeel toepasbaar

Gunstig verbruik

IMO gecertificeerd

**Eigenschappen:**

Brandbaarheid: Niet brandbaar.

Classificatie: Ecode EC 1PLUS getest conform EN 13999-2/4.

Soortelijk gewicht: Ca. 1,01 kg/l.

Verbruik: 50-75 g/m<sup>2</sup> bij gesloten ondervloeren. 100 – 200 g/m<sup>2</sup> bij zuigende ondervloeren.

**Verpakking:** Jerrycan à 10 kg.

**EAN-code:** 8 710345 044011

### 1.7 DESCRIPTION OF THE MANUFACTURING PROCESS

Alle grondstoffen worden via pompen in een ketel gedoseerd en gemengd, waarna het eindproduct in gerecyclede jerrycans wordt afgevuld.

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## 1.8 RESULTS

Environmental effects	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ADPE	Kg Sb	2.17E-5	1.10E-6	9.48E-7	5.35E-7	3.87E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.96E-8	1.57E-9	1.66E-10	2.51E-7	2.50E-5
ADPF	Kg Sb	7.37E-3	3.17E-4	1.91E-3	1.54E-4	1.43E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.71E-5	3.89E-6	2.43E-7	1.19E-4	1.00E-2
GWP	Kg CO2 Equiv.	8.38E-1	4.31E-2	1.91E-1	2.09E-2	1.08E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.33E-3	5.49E-4	1.78E-5	-2.04E-2	1.18E+0
ODP	Kg CFC-11 Equiv.	1.53E-7	7.64E-9	1.48E-8	3.71E-9	4.88E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.14E-10	6.01E-11	5.94E-12	-5.53E-9	1.79E-7
POCP	Kg Ethene Equiv.	8.54E-4	2.60E-5	7.10E-5	1.26E-5	1.37E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.41E-6	3.14E-7	1.90E-8	2.57E-5	1.00E-3
AP	Kg SO2 Equiv.	1.02E-2	1.89E-4	4.54E-4	9.20E-5	1.46E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.03E-5	2.54E-6	1.30E-7	6.93E-5	1.11E-2
EP	Kg PO43- Equiv.	5.29E-4	3.72E-5	5.95E-5	1.81E-5	1.27E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.01E-6	5.66E-7	2.52E-8	4.04E-6	6.63E-4
HTP	kg 1.4 DB	4.81E-1	1.81E-2	2.74E-2	8.81E-3	1.26E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.82E-4	1.31E-4	8.06E-6	2.37E-3	5.51E-1
FAETP	kg 1.4 DB	1.02E-1	5.29E-4	1.39E-3	2.57E-4	1.45E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.87E-5	2.25E-6	1.91E-7	7.18E-5	1.06E-1
MAETP	kg 1.4 DB	9.67E+1	1.90E+0	2.59E+0	9.25E-1	2.14E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.03E-1	8.48E-3	6.84E-4	1.85E-1	1.05E+2
TETP	kg 1.4 DB	1.49E-3	6.41E-5	4.62E-4	3.11E-5	3.92E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.47E-6	1.60E-6	2.02E-8	1.10E-5	2.10E-3
AP	mol H+ eqv.	1.15E-2	2.52E-4	5.55E-4	1.22E-4	1.73E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.36E-5	3.49E-6	1.73E-7	7.93E-5	1.27E-2
GWP-total	kg CO2 eqv.	8.65E-1	4.35E-2	1.95E-1	2.11E-2	1.08E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.35E-3	5.59E-4	1.82E-5	-1.94E-2	1.22E+0
GWP-b	kg CO2 eqv.	4.10E-3	2.01E-5	1.27E-3	9.74E-6	2.53E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.09E-6	3.22E-6	3.60E-8	1.75E-4	5.84E-3
GWP-f	kg CO2 eqv.	8.60E-1	4.34E-2	1.94E-1	2.11E-2	1.08E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.35E-3	5.56E-4	1.82E-5	-1.96E-2	1.21E+0
GWP-luluc	kg CO2 eqv.	6.61E-4	1.59E-5	8.24E-5	7.73E-6	1.57E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.62E-7	1.06E-7	5.07E-9	8.34E-6	7.92E-4
ETP-fw	CTUe	2.40E+1	5.84E-1	1.56E+0	2.84E-1	1.48E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.16E-2	6.05E-3	3.30E-4	1.26E-1	2.81E+1

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PM	disease incidence	5.12E-8	3.91E-9	3.09E-9	1.90E-9	1.03E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.12E-10	7.69E-11	3.35E-12	8.12E-10	6.22E-8
EP-m	kg N eqv.	8.98E-4	8.88E-5	9.85E-5	4.31E-5	2.50E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.81E-6	1.39E-6	5.93E-8	6.42E-6	1.17E-3
EP-fw	kg P eqv.	4.31E-5	4.38E-7	6.37E-6	2.13E-7	7.97E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.37E-8	1.73E-8	2.04E-10	5.27E-7	5.14E-5
EP-T	mol N eqv.	9.19E-3	9.79E-4	1.16E-3	4.76E-4	2.70E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.30E-5	1.54E-5	6.54E-7	7.22E-5	1.22E-2
HTP-c	CTUh	1.71E-9	1.89E-11	5.29E-11	9.21E-12	3.65E-11	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.03E-12	1.43E-13	7.62E-15	5.32E-12	1.83E-9
HTP-nc	CTUh	2.39E-8	6.39E-10	1.18E-9	3.10E-10	6.52E-10	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.46E-11	4.06E-12	2.34E-13	1.50E-10	2.69E-8
IR	kBq U235 eqv.	4.55E-2	2.75E-3	5.33E-3	1.33E-3	9.09E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.49E-4	2.37E-5	2.08E-6	5.16E-4	5.65E-2
SQP	Pt	5.18E+0	5.68E-1	5.50E-1	2.76E-1	1.06E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.08E-2	1.25E-3	1.07E-3	-2.14E-3	6.71E+0
ODP	kg CFC 11 eqv.	1.57E-7	9.59E-9	1.57E-8	4.66E-9	4.99E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.19E-10	7.21E-11	7.48E-12	-6.46E-9	1.86E-7
POCP	kg NMVOC eqv.	3.45E-3	2.79E-4	3.76E-4	1.36E-4	8.36E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.51E-5	4.19E-6	1.90E-7	6.65E-5	4.41E-3
ADP-f	MJ	1.49E+1	6.55E-1	3.75E+0	3.18E-1	2.83E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.55E-2	7.47E-3	5.08E-4	3.82E-1	2.03E+1
ADP-mm	kg Sb-eqv.	1.87E-5	1.10E-6	9.26E-7	5.35E-7	3.57E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.96E-8	1.57E-9	1.66E-10	2.51E-7	2.20E-5
WDP	m3 world eqv.	8.82E-1	2.34E-3	6.60E-2	1.14E-3	1.45E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.27E-4	3.38E-5	2.28E-5	5.47E-3	9.71E-1

**ADPE**=Depletion of abiotic resources-elements | **ADPF**=Depletion of abiotic resources-fossil fuels | **GWP**=Global warming | **ODP**=Ozone layer depletion | **POCP**=Photochemical oxidants creation | **AP**=Acidification of soil and water | **EP**=Eutrophication | **HTP**=Human toxicity | **FAETP**=Ecotoxicity, fresh water | **MAETP**=Ecotoxicity, marine water (MAETP) | **TETP**=Ecotoxicity, terrestrial | **AP**=Acidification (AP) | **GWP-total**=Global warming potential (GWP-total) | **GWP-b**=Global warming potential - Biogenic (GWP-b) | **GWP-f**=Global warming potential - Fossil (GWP-f) | **GWP-luluc**=Global warming potential - Land use and land use change (GWP-luluc) | **ETP-fw**=Ecotoxicity, freshwater (ETP-fw) | **PM**=Particulate Matter (PM) | **EP-m**=Eutrophication marine (EP-m) | **EP-fw**=Eutrophication, freshwater (EP-fw) | **EP-T**=Eutrophication, terrestrial (EP-T) | **HTP-c**=Human toxicity, cancer (HTP-c) | **HTP-nc**=Human toxicity, non-cancer (HTP-nc) | **IR**=Ionising radiation, human health (IR) | **SQP**=Land use (SQP) | **ODP**=Ozone depletion (ODP) | **POCP**=Photochemical ozone formation - human health (POCP) | **ADP-f**=Resource use, fossils (ADP-f) | **ADP-mm**=Resource use, minerals and metals (ADP-mm) | **WDP**=Water use (WDP)

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Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
PERE	MJ	1.22E+0	8.20E-3	1.76E-1	3.99E-3	2.20E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.44E-4	4.25E-4	4.11E-6	1.73E-2	1.45E+0
PERM	MJ	0.00E+0	0.00E+0	1.50E-2	0.00E+0	1.50E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.51E-2
PERT	MJ	1.22E+0	8.20E-3	1.91E-1	3.99E-3	2.22E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.44E-4	4.25E-4	4.11E-6	1.73E-2	1.47E+0
PENRE	MJ	1.24E+1	6.96E-1	2.47E+0	3.38E-1	2.52E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.77E-2	7.96E-3	5.40E-4	-3.34E-1	1.59E+1
PENRM	MJ	3.50E+0	0.00E+0	1.59E+0	0.00E+0	5.09E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.10E-1	5.85E+0
PENRT	MJ	1.59E+1	6.96E-1	4.05E+0	3.38E-1	3.03E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.77E-2	7.96E-3	5.40E-4	3.76E-1	2.17E+1
SM	Kg	0.00E+0	0.00E+0	2.04E-2	0.00E+0	2.04E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.06E-2
RSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
NRSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	M3	2.28E-2	7.98E-5	1.80E-3	3.88E-5	3.93E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.32E-6	2.49E-6	5.43E-7	-8.33E-5	2.50E-2
HWD	Kg	1.20E-5	1.66E-6	2.59E-6	8.07E-7	3.45E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.99E-8	1.30E-8	7.59E-10	-1.06E-6	1.64E-5
NHWD	Kg	3.98E-1	4.16E-2	1.18E-2	2.02E-2	1.15E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.25E-3	1.04E-3	3.45E-3	6.24E-4	4.90E-1
RWD	Kg	4.55E-5	4.30E-6	5.46E-6	2.09E-6	9.28E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.33E-7	3.35E-8	3.34E-9	2.67E-7	5.88E-5
CRU	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MFR	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.51E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.42E-1	0.00E+0	0.00E+0	3.47E-1
MER	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EE	MJ	0.00E+0	0.00E+0	1.05E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.59E-1	6.69E-1
EET	MJ	0.00E+0	0.00E+0	6.64E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.17E-1	4.23E-1
EEE	MJ	0.00E+0	0.00E+0	3.85E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.42E-1	2.46E-1
SP	s€	s€ 0,15	s€ 0,01	s€ 0,02	s€ 0,00	s€ 0,01	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,18

PERE=renewable primary energy ex. raw materials | PERM=renewable primary energy used as raw materials | PERT=renewable primary energy total | PENRE=non-renewable primary energy ex. raw materials | PENRM=non-renewable primary energy used as raw materials | PENRT=non-renewable primary energy total | SM=use of secondary material | RSF=use of renewable secondary fuels | NRSF=use of non-renewable secondary fuels | FW=use of net fresh water | HWD=hazardous waste disposed | NHWD=non hazardous waste disposed | RWD=radioactive waste disposed | CRU=Components for re-use | MFR=Materials for recycling | MER=Materials for energy recovery | EE=Exported energy | EET=Exported Energy Thermic | EEE=Exported Energy Electric

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### 1.9 ADDITIONAL INFORMATION

#### *Allocation*

There is no allocation applied for the environmental profiles / datasets used in this LCA.