

Result summary

# 946 Europlan Hybrid Repair

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



## 1 946 Europlan Hybrid Repair

### 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-20200624-10348

**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

#### ***Één kilogram 946 Europlan Hybrid Repair reparatie mortel***

De productie (A1-A3) van één kilogram 946 Europlan Hybrid Repair, 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 946 Europlan Hybrid Repair is een sneldrogende, standvaste en politoerbare reparatiemortel.

### Eigenschappen:

Begaanbaarheid: Na ca. 40 minuten bij 18° - 20° C.

Brandbaarheid: Niet brandbaar.

Buigsterkte: Volgens NEN-EN 13892-2:2002 na 28 dagen  $\geq 11$  N/mm<sup>2</sup>.

Bureauolstoelvastheid: Vanaf 2 mm laagdikte.

Druksterkte: Volgens NEN-EN 13892-2:2002 na 28 dagen  $\geq 38$  N/mm<sup>2</sup>.

Verbruik: Ca. 1,5 kg/m<sup>2</sup> per mm laagdikte.

Vorstbestendigheid: Ja.

### Toepassing:

- Zeer geschikt voor het opvullen van diepe gleuven.
- Voor het uitvlakken en repareren van zowel cement- als gipsgebonden vloerooppervlakken binnen.

- Het vullen van gaten, gleuven en oneffenheden in zowel cement- als gipsgebonden vloeren en wanden en andere steenachtige ondergronden.
- Snelverhardend, sneldrogend, waardoor de ondergrond snel kan worden afgewerkt met bijvoorbeeld een egalisatie, vloerbedekking of keramisch tegelwerk.
- Niet geschikt voor natte ruimten en/of buitentoepassing.
- Wel geschikt in natte ruimten indien de ondergrond wordt afgewerkt conform de richtlijnen van het Eurocol waterdicht tegelwerk systeem.

**Verpakking:** Zak à 23 kg

**EAN-code:** 8 710345 946001

## 1.7 DESCRIPTION OF THE MANUFACTURING PROCESS

Via verticaal transport worden de grondstoffen middels vijzels in menger gedoseerd en gemengd, waarna het eindproduct in zakken wordt afgevuld. Tijdens (en na) productie vinden er geen emissies plaats.

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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	1.89E-6	2.22E-6	1.47E-7	5.16E-7	1.15E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.33E-7	2.29E-10	4.58E-8	-2.51E-9	5.26E-6
ADPF	Kg Sb	1.36E-3	6.42E-4	1.39E-4	1.48E-4	5.18E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.60E-5	5.69E-7	6.69E-5	-1.67E-5	2.49E-3
GWP	Kg CO2 Equiv.	1.48E-1	8.74E-2	1.61E-2	2.02E-2	8.87E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.30E-2	8.04E-5	4.91E-3	-1.80E-3	2.97E-1
ODP	Kg CFC-11 Equiv.	1.17E-8	1.55E-8	1.06E-9	3.58E-9	8.38E-10	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.32E-9	8.80E-12	1.64E-9	-2.10E-10	3.65E-8
POCP	Kg Ethene Equiv.	1.48E-4	5.32E-5	7.85E-6	1.22E-5	5.10E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.87E-6	4.59E-8	5.23E-6	-5.92E-7	2.38E-4
AP	Kg SO2 Equiv.	4.93E-4	3.98E-4	6.00E-5	8.87E-5	2.49E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.74E-5	3.72E-7	3.59E-5	-3.57E-6	1.15E-3
EP	Kg PO43- Equiv.	7.57E-5	7.68E-5	1.34E-5	1.74E-5	4.45E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.13E-5	8.28E-8	6.93E-6	-7.62E-7	2.05E-4
HTP	kg 1.4 DB	3.12E-2	3.69E-2	3.77E-3	8.50E-3	2.19E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.49E-3	1.91E-5	2.22E-3	-2.07E-4	9.00E-2
FAETP	kg 1.4 DB	9.64E-4	1.07E-3	7.54E-4	2.48E-4	7.92E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.60E-4	3.30E-7	5.27E-5	-2.70E-6	3.33E-3
MAETP	kg 1.4 DB	2.57E+0	3.86E+0	3.18E-1	8.92E-1	2.08E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.77E-1	1.24E-3	1.88E-1	-8.12E-3	8.61E+0
TETP	kg 1.4 DB	2.06E-4	1.30E-4	1.81E-4	3.00E-5	1.24E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.94E-5	2.35E-7	5.57E-6	-7.36E-7	5.85E-4
AP	mol H+ eqv.	6.12E-4	5.28E-4	7.64E-5	1.18E-4	3.21E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.63E-5	5.11E-7	4.75E-5	-5.14E-6	1.49E-3
GWP-total	kg CO2 eqv.	1.51E-1	8.82E-2	1.21E-2	2.04E-2	9.58E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.32E-2	8.18E-5	5.01E-3	-1.83E-3	2.98E-1
GWP-b	kg CO2 eqv.	-2.28E-4	4.02E-5	-4.13E-3	9.40E-6	6.41E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.07E-6	4.71E-7	9.92E-6	-3.61E-6	-3.66E-3
GWP-f	kg CO2 eqv.	1.51E-1	8.81E-2	1.62E-2	2.04E-2	8.93E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.32E-2	8.14E-5	5.00E-3	-1.82E-3	3.01E-1
GWP-luluc	kg CO2 eqv.	6.25E-5	3.25E-5	9.52E-5	7.46E-6	4.39E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.82E-6	1.55E-8	1.39E-6	-4.00E-7	2.08E-4
ETP-fw	CTUe	2.90E+0	1.18E+0	2.82E-1	2.74E-1	1.38E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.77E-1	8.86E-4	9.07E-2	-1.23E-1	4.92E+0

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PM	disease incidence	4.60E-9	7.89E-9	5.72E-10	1.83E-9	3.79E-10	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.18E-9	1.13E-11	9.23E-10	-6.64E-11	1.73E-8
EP-m	kg N eqv.	1.27E-4	1.84E-4	1.84E-5	4.16E-5	9.23E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.69E-5	2.03E-7	1.63E-5	-1.63E-6	4.22E-4
EP-fw	kg P eqv.	3.30E-6	8.85E-7	1.38E-6	2.05E-7	1.31E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.33E-7	2.53E-9	5.61E-8	-7.00E-9	6.08E-6
EP-T	mol N eqv.	1.48E-3	2.03E-3	1.87E-4	4.59E-4	1.03E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.97E-4	2.26E-6	1.80E-4	-2.22E-5	4.71E-3
HTP-c	CTUh	4.10E-11	3.85E-11	5.60E-12	8.88E-12	2.90E-12	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.74E-12	2.10E-14	2.10E-12	-2.63E-13	1.05E-10
HTP-nc	CTUh	1.60E-9	1.29E-9	1.77E-10	2.99E-10	8.77E-11	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.94E-10	5.94E-13	6.45E-11	-6.74E-12	3.71E-9
IR	kBq U235 eqv.	5.61E-3	5.56E-3	6.40E-4	1.29E-3	3.14E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.32E-4	3.46E-6	5.74E-4	-2.14E-5	1.48E-2
SQP	Pt	8.43E-1	1.15E+0	3.01E-1	2.66E-1	6.28E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.72E-1	1.82E-4	2.93E-1	-3.04E-2	3.05E+0
ODP	kg CFC 11 eqv.	1.36E-8	1.94E-8	1.13E-9	4.49E-9	1.00E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.90E-9	1.06E-11	2.06E-9	-2.39E-10	4.44E-8
POCP	kg NMVOC eqv.	6.13E-4	5.78E-4	4.74E-5	1.31E-4	3.33E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.47E-5	6.13E-7	5.23E-5	-5.20E-6	1.53E-3
ADP-f	MJ	2.80E+0	1.33E+0	2.70E-1	3.07E-1	1.06E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.98E-1	1.09E-3	1.40E-1	-3.15E-2	5.12E+0
ADP-mm	kg Sb-eqv.	1.88E-6	2.22E-6	1.44E-7	5.16E-7	1.15E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.33E-7	2.29E-10	4.58E-8	-2.51E-9	5.26E-6
WDP	m3 world eqv.	6.47E-2	4.73E-3	8.52E-3	1.10E-3	1.88E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.10E-4	4.95E-6	6.27E-3	-1.94E-4	8.77E-2

**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	7.12E-2	1.66E-2	1.50E-2	3.84E-3	2.52E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.48E-3	6.22E-5	1.13E-3	-6.77E-3	1.06E-1
PERM	MJ	6.99E-2	0.00E+0	5.89E-2	0.00E+0	2.58E-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	1.31E-1
PERT	MJ	1.41E-1	1.66E-2	7.39E-2	3.84E-3	5.10E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.48E-3	6.22E-5	1.13E-3	-6.77E-3	2.37E-1
PENRE	MJ	2.90E+0	1.41E+0	2.44E-1	3.26E-1	1.11E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.11E-1	1.17E-3	1.49E-1	-3.32E-2	5.32E+0
PENRM	MJ	9.63E-2	0.00E+0	4.46E-2	0.00E+0	2.82E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-1.52E-3	1.42E-1
PENRT	MJ	3.00E+0	1.41E+0	2.88E-1	3.26E-1	1.13E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.11E-1	1.17E-3	1.49E-1	-3.48E-2	5.46E+0
SM	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
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	1.76E-3	1.61E-4	3.08E-4	3.74E-5	5.38E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.42E-5	3.65E-7	1.49E-4	-3.30E-6	2.49E-3
HWD	Kg	1.94E-6	3.35E-6	2.44E-7	7.78E-7	1.54E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.03E-7	1.90E-9	2.09E-7	-3.93E-8	7.14E-6
NHWD	Kg	7.17E-3	8.37E-2	3.86E-3	1.95E-2	2.18E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.26E-2	1.52E-4	9.50E-1	-2.99E-5	1.10E+0
RWD	Kg	6.79E-6	8.72E-6	6.56E-7	2.02E-6	4.38E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.30E-6	4.91E-9	9.19E-7	-2.75E-8	2.08E-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	1.00E-4	0.00E+0	1.06E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.00E-2	0.00E+0	0.00E+0	5.12E-2
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	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	2.18E-2	2.18E-2
EET	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	1.38E-2	1.38E-2
EEE	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	8.01E-3	8.01E-3
SP	s€	s€ 0,01	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€ 0,00	s€ 0,00	s€ 0,00	s€ 0,03

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.