

Result summary

690 Tegelpasta

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

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1.1 COMPANY INFORMATION / DECLARATION OWNER

Manufacturer: Forbo Eurocol Nederland B.V.

Production Location: Eurocol Nederland B.V

Address: Industrierweg 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-20210324-18273

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 690 Tegelpasta tegellijm

De productie (A1-A3) van één kilogram 690 Tegelpasta tegellijm, 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 690 Tegelpasta is een acrylaatdispersie in gebruiksklare pastavorm.

Eigenschappen:

Alkalibestendigheid:

690 Tegelpasta is bestand tegen een alkalisch milieu.

Classificatie:

DIT conform NEN EN 12004. Een pastategelijm met een verhoogd standvermogen.

Soortelijk gewicht: 1,6 kg/l.

Verbruik: Ca. 1,3 kg/m² bij toepassing van normale wandtegels op vlakke ondergronden.

Toepassing:

Voor het verlijmen van:

wandtegels

DHG-tegels

natuursteen (behalve marmer)

bouw- en isolatieplaten.

Lichtgekleurd natuursteen en glasmosaïek verlijmen met 681 Marmercul of 711 Uniflex.

Op binnenwanden, zoals:

cementgebonden ondergronden

gipsgebonden ondergronden

bestaand tegelwerk.

Verpakking: Emmer à 16 kg

EAN-code: 8 710345 008808

1.7 DESCRIPTION OF THE MANUFACTURING PROCESS

Vloeibare silo componenten worden via pompen gedoseerd. De droge silo grondstoffen worden gedoseerd in een hopper en vervolgens in de onderstaande menger gemengd, waarna het eindproduct in gerecyclede emmers 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	7.40E-6	1.07E-6	9.91E-7	5.29E-7	3.07E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.41E-7	3.71E-9	3.93E-10	-2.01E-7	1.02E-5
ADPF	Kg Sb	2.18E-3	3.07E-4	1.58E-3	1.52E-4	1.19E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.06E-5	9.19E-6	5.75E-7	-4.23E-4	3.97E-3
GWP	Kg CO2 Equiv.	2.43E-1	4.18E-2	1.26E-1	2.07E-2	7.89E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.52E-3	1.30E-3	4.22E-5	-4.54E-2	4.73E-1
ODP	Kg CFC-11 Equiv.	8.96E-8	7.42E-9	8.21E-9	3.67E-9	4.43E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.79E-10	1.42E-10	1.40E-11	-4.99E-9	1.09E-7
POCP	Kg Ethene Equiv.	2.26E-4	2.52E-5	7.02E-5	1.25E-5	9.68E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.33E-6	7.42E-7	4.49E-8	-1.00E-5	3.38E-4
AP	Kg SO2 Equiv.	2.47E-3	1.84E-4	3.84E-4	9.10E-5	9.03E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.43E-5	6.01E-6	3.08E-7	-5.12E-5	3.20E-3
EP	Kg PO43- Equiv.	1.87E-4	3.61E-5	4.87E-5	1.79E-5	1.05E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.76E-6	1.34E-6	5.95E-8	-7.47E-6	2.99E-4
HTP	kg 1.4 DB	2.23E-1	1.76E-2	2.23E-2	8.71E-3	1.07E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.32E-3	3.09E-4	1.91E-5	-3.96E-3	2.81E-1
FAETP	kg 1.4 DB	2.10E-2	5.14E-4	8.22E-4	2.54E-4	7.52E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.78E-5	5.33E-6	4.52E-7	-5.13E-5	2.34E-2
MAETP	kg 1.4 DB	2.12E+1	1.85E+0	1.86E+0	9.15E-1	1.33E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.44E-1	2.01E-2	1.62E-3	-2.14E-1	2.72E+1
TETP	kg 1.4 DB	4.68E-4	6.22E-5	3.01E-4	3.08E-5	3.10E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.21E-6	3.79E-6	4.79E-8	-1.59E-5	8.89E-4
AP	mol H+ eqv.	2.83E-3	2.45E-4	4.65E-4	1.21E-4	1.09E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.23E-5	8.25E-6	4.08E-7	-6.57E-5	3.75E-3
GWP-total	kg CO2 eqv.	2.50E-1	4.22E-2	1.36E-1	2.09E-2	7.95E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.57E-3	1.32E-3	4.31E-5	-4.61E-2	4.89E-1
GWP-b	kg CO2 eqv.	4.11E-4	1.95E-5	6.29E-3	9.63E-6	3.04E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.57E-6	7.61E-6	8.52E-8	-3.77E-5	7.01E-3
GWP-f	kg CO2 eqv.	2.49E-1	4.22E-2	1.29E-1	2.09E-2	7.92E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.56E-3	1.31E-3	4.30E-5	-4.60E-2	4.82E-1
GWP-luluc	kg CO2 eqv.	1.96E-4	1.54E-5	9.19E-5	7.64E-6	1.21E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.04E-6	2.50E-7	1.20E-8	-5.56E-6	3.20E-4
ETP-fw	CTUe	9.89E+0	5.67E-1	1.20E+0	2.81E-1	1.12E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.48E-2	1.43E-2	7.79E-4	-1.22E-1	1.30E+1

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PM	disease incidence	1.44E-8	3.79E-9	2.88E-9	1.88E-9	7.83E-10	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.00E-10	1.82E-10	7.93E-12	-5.87E-10	2.38E-8
EP-m	kg N eqv.	2.71E-4	8.62E-5	8.00E-5	4.26E-5	1.98E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.14E-5	3.28E-6	1.40E-7	-1.84E-5	4.96E-4
EP-fw	kg P eqv.	1.26E-5	4.25E-7	5.18E-6	2.10E-7	5.84E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.61E-8	4.09E-8	4.82E-10	-2.07E-7	1.89E-5
EP-T	mol N eqv.	2.76E-3	9.50E-4	9.07E-4	4.70E-4	2.14E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.25E-4	3.65E-5	1.55E-6	-2.07E-4	5.26E-3
HTP-c	CTUh	4.08E-10	1.84E-11	3.68E-11	9.10E-12	2.30E-11	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.43E-12	3.39E-13	1.80E-14	-5.68E-12	4.92E-10
HTP-nc	CTUh	9.42E-9	6.20E-10	9.63E-10	3.07E-10	5.11E-10	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.18E-11	9.60E-12	5.54E-13	-1.22E-10	1.18E-8
IR	kBq U235 eqv.	1.28E-2	2.66E-3	5.93E-3	1.32E-3	7.23E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.52E-4	5.60E-5	4.93E-6	-4.40E-4	2.34E-2
SQP	Pt	1.97E+0	5.51E-1	5.03E-1	2.73E-1	9.65E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.28E-2	2.95E-3	2.52E-3	-7.51E-2	3.39E+0
ODP	kg CFC 11 eqv.	8.98E-8	9.31E-9	8.00E-9	4.60E-9	4.52E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.23E-9	1.70E-10	1.77E-11	-5.67E-9	1.12E-7
POCP	kg NMVOC eqv.	9.86E-4	2.71E-4	3.31E-4	1.34E-4	6.51E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.58E-5	9.91E-6	4.49E-7	-6.60E-5	1.77E-3
ADP-f	MJ	4.41E+0	6.36E-1	3.30E+0	3.15E-1	2.38E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.39E-2	1.77E-2	1.20E-3	-7.92E-1	8.22E+0
ADP-mm	kg Sb-eqv.	5.02E-6	1.07E-6	9.73E-7	5.29E-7	2.59E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.41E-7	3.71E-9	3.93E-10	-2.01E-7	7.79E-6
WDP	m3 world eqv.	2.38E-1	2.28E-3	6.03E-2	1.13E-3	9.62E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.00E-4	8.00E-5	5.39E-5	-5.42E-2	2.57E-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	3.79E-1	7.96E-3	1.70E-1	3.94E-3	1.69E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.05E-3	1.00E-3	9.72E-6	-7.16E-3	5.73E-1
PERM	MJ	0.00E+0	0.00E+0	1.28E-2	0.00E+0	2.55E-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	1.30E-2
PERT	MJ	3.79E-1	7.96E-3	1.83E-1	3.94E-3	1.72E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.05E-3	1.00E-3	9.72E-6	-7.16E-3	5.86E-1
PENRE	MJ	3.87E+0	6.75E-1	2.41E+0	3.34E-1	2.15E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.91E-2	1.88E-2	1.28E-3	-8.36E-1	6.78E+0
PENRM	MJ	8.55E-1	0.00E+0	1.13E+0	0.00E+0	3.96E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-3.83E-2	1.98E+0
PENRT	MJ	4.72E+0	6.75E-1	3.54E+0	3.34E-1	2.54E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.91E-2	1.88E-2	1.28E-3	-8.74E-1	8.76E+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	6.26E-3	7.75E-5	1.50E-3	3.83E-5	2.63E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.02E-5	5.90E-6	1.28E-6	-1.23E-3	6.94E-3
HWD	Kg	3.91E-6	1.61E-6	2.11E-6	7.97E-7	2.99E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.13E-7	3.07E-8	1.80E-9	-9.53E-7	8.02E-6
NHWD	Kg	8.88E-2	4.03E-2	8.18E-3	2.00E-2	8.35E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.32E-3	2.46E-3	8.16E-3	-8.07E-4	1.81E-1
RWD	Kg	1.28E-5	4.18E-6	5.44E-6	2.07E-6	7.57E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.51E-7	7.93E-8	7.89E-9	-5.56E-7	2.53E-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	1.77E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.08E-1	0.00E+0	0.00E+0	8.26E-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	2.56E-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	4.77E-1	4.79E-1
EET	MJ	0.00E+0	0.00E+0	1.62E-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	3.02E-1	3.03E-1
EEE	MJ	0.00E+0	0.00E+0	9.42E-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	0.00E+0	1.75E-1	1.76E-1
SP	s€	s€ 0,05	s€ 0,01	s€ 0,01	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€ 0,07

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.