





ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 for Silancolor Cleaner Plus Silancolor Primer Plus Silancolor Base Coat Plus Silancolor Pittura Plus Silancolor Tonachino Plus









1. COMPANY DESCRIPTION / GOAL & SCOPE

Founded in 1937 in Milan, Italy, Mapei produces adhesives and complementary products for laying all types of floor, wall and coating materials, and also specializes in other chemical products used in the building industry, such as waterproofing products, specialty mortars, admixtures for concrete, products for underground constructions and for the restoration of concrete and historical buildings.

There are currently 85 subsidiaries in the Mapei Group, with a total of 80 production facilities located around the world in 35 different countries and in 5 different continents. Mapei also has 31 central laboratories. Most locations are ISO 9001 and ISO 14001 or EMAS-certified.

Mapei's strategy of internationalization is based on two main objectives: being closer to local needs and lowering transportation costs. With the declared objective of being close to buyers and clients, Mapei's presence in the five continents enables the company to comply with the requirements of each location, and to use only locally-based managers and qualified personnel, without changing the approach of Mapei.

Mapei invests 12% in its company's total work-force and 5% of its turnover in Research & Development; in particular, 70% of its R&D efforts are directed to develop eco-sustainable and environmentally friendly products, which give important contribution to all major green rating systems for eco-sustainable buildings such as LEED and BREEAM.

Furthermore, Mapei has developed a sales and technical service network with offices all over the world and offers an efficient Technical Assistance Service that is valued by architects, engineers, contractors and owners.

The goal of the study is to provide necessary data and documentation to produce an EPD according to the requirements of PCR Environdec (version 2.3, 2018-11-15) under EN 15804:2014 and to have more comprehension about the environmental impacts related to **Silancolor Cleaner Plus**, **Silancolor Primer Plus**, **Silancolor Base Coat Plus**, **Silancolor Pittura Plus** and **Silancolor Tonachino Plus** manufactured in Mapei S.p.A. located in Robbiano di Mediglia (Italy), in year 2018, including packaging of the finished products.

Target audiences of the study are customers and other parties with an interest in the environmental impacts of Silancolor Cleaner Plus, Silancolor Primer Plus, Silancolor Base Coat Plus, Silancolor Pittura Plus and Silancolor Tonachino Plus.

This analysis shall not support comparative assertions intended to be disclosed to the public.













2. PRODUCT DESCRIPTION

Silancolor Cleaner Plus is a mould and algae resistant, hygienising preparation in water solution with high penetration power.

Silancolor Primer Plus is a mould and algae resistant, evens out surfaces, siloxane-based primer for the hygiene of walls.

Silancolor Base Coat Plus is a mould and algae resistant, evens out surfaces and water-repellent, siloxane hygienising pigmented base coat for internal and external application.

Silancolor Pittura Plus is a mould and algae resistant siloxane paint for the hygiene of walls, water-repellent and transpirant, for internal and external application.

Silancolor Tonachino Plus is a mould and algae resistant siloxane plaster for the hygiene of walls, water-repellent and transpirant, for internal and external application. Available in the following grain sizes: 0,7 mm – 1,2 mm – 1,5 mm. It complies with the requirements of EN 15824 ("Specifications for external renders and internal plasters based on organic binders") for internal and external use. The products studied are supplied as follows:

- Silancolor Cleaner Plus: bucket with 5 kg of paint on wooden pallet
 wrapped with LDPE
- Silancolor Primer Plus: bucket with 10 kg of paint on wooden pallet wrapped with LDPE.
- Silancolor Base Coat Plus, Silancolor Pittura Plus and Silancolor Tonachino Plus: bucket with 20 kg of product delivered on wooden pallet wrapped with LDPE.

For further information see the Technical Data Sheets (TDS).

3. CONTENT DECLARATION

The main components and ancillary materials of the products studied are the following:

Table 1: Composition

Materials	Percentage (%) by mass
Polymer dispersions	< 30
Fillers	< 75
Biocides	< 15
Pigments	< 15
Water	< 90
Other (additives & packaging)	< 5





The products contain neither carcinogenic substances nor substances of very high concern (SVHC) on the REACH Candidate List published by the European Chemicals Agency, in a concentration higher than 0,1 % (by unit weight).

4. DECLARED UNIT AND REFERENCE SERVICE LIFE

The declared unit (DU) is 1 kg of coating (packaging included).

Packaging materials include:

- Wooden pallet
- Polypropylene bucket
- LDPE for wrapping

The following table shows the amount used for DU (1 m²):

Table 2: Average consumption amount

Product	Consumption kg/m ²
Silancolor Cleaner Plus	0,6
Silancolor Primer Plus	0,2
Silancolor Base Coat Plus	0,25
Silancolor Pittura Plus	0,35
Silancolor Tonachino Plus (0,7mm)	1,85
Silancolor Tonachino Plus (1,2 mm)	2,1
Silancolor Tonachino Plus (1,5 mm)	2,4

Note: average amount from technical data sheets

According to the system boundary applied the RSL is not specified in this study.

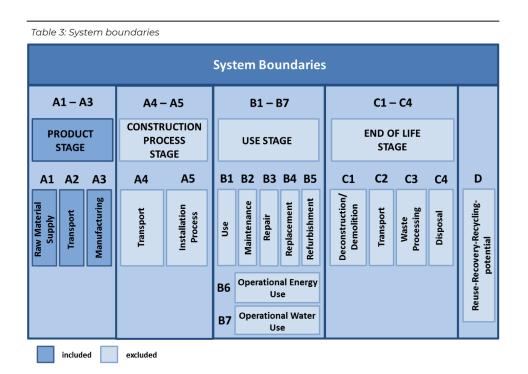


5. SYSTEM BOUNDARIES AND ADDITIONAL TECHNICAL INFORMATION

The approach is "cradle to gate".

The following modules have been considered:

• A1 – A3 (Product Stage): extraction and transport of raw materials, packaging included, production process.



A brief description of production process, is the following:

The production process starts from raw materials, that are purchased from external and intercompany suppliers and stored in the plant. Bulk raw materials are stored in specific silos and added automatically in the production mixer, according to the formula of the product. Other raw materials, supplied in bags, big bags or tanks, are stored in the warehouse and added automatically or manually in the mixer. The production is a discontinuous process, in which all the components are mechanically mixed in batches. The semi-finished product is then packaged, put on wooden pallets and stored in the finished products warehouse. The quality of final products is controlled before the sale.





Figure 1: Production process detail





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6. CUT-OFF RULES AND ALLOCATION

Criteria for the exclusion of inputs and outputs (cut-off rules) in the LCA, information modules and any additional information are intended to support an efficient calculation procedure. They are not applied in order to hide data.

The procedure of exclusion of inputs and outputs is the following:

- All inputs and outputs to a unit process, for which data are available, are included in the calculation
- Cut-off criteria, where applied, are described in Table 4.

Input flows are covered for the whole formula.

Table 4: Cut-off criteria			
Process excluded from the study	Cut-off criteria	Quantified contribution from process	
A3: production (auxiliary materials)	Less than 10 ⁻⁵ kg/kg of finished product	Sensibility study demonstrates a contribute lower than 0,5%	
A3: waste and particle emission	Less than 10 ⁻⁵ kg/kg of finished product	Sensibility study demonstrates a contribute lower than 0,5%	

For the allocation procedure and principles, consider the Table 5.

Table 5: Allocation procedure and principles

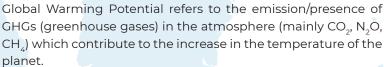
Module	Allocation Principle
Al	All data are referred to 1 m ² of product • Al: electricity is allocated to the whole plant production
A3	All data are referred to 1 m² of packaged product • A3-wastes: all data are allocated to the whole plant production





7. ENVIRONMENTAL PERFORMANCE & INTERPRETATION

GWP₁₀₀



AP



Acidification Potential refers to the emission of specific acidifying substances (i.e. NOx, SOx) in the air. These substances decrease the pH of the rainfall with predictable damages to the ecosystem.



Eutrophication Potential refers to the nutrient enrichment of flowing water, which determines unbalance in aquatic ecosystems and causes the death of the aquatic fauna.

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ODP

EP



Ozone Depletion Potential refers to the degradation of the stratospheric layer of the ozone involved in blocking the UV component of sunrays. Depletion is due to particularly reactive components that originate from chlorofluorocarbon (CFC) or chlorofluoromethanes (CFM).

POCP



The Photochemical Ozone Creation Potential is the ozone formation in low atmosphere. This is quite common in the cities where a great amount of pollutants (like VOC and NOx) are emitted every day (industrial emissions and vehicles). It is mainly diffused during the summertime.



ADP_e (elements)

Abiotic Depletion Potential elements refers to the depletion of the mineral resources.



ADP_f (fossil fuel)

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Abiotic Depletion Potential fossil fuel refers to the depletion of the fossil fuel resources.



Following tables show environmental impacts for the products considered according to CML methodology (2001 – Jan. 2016 ver. 4.7). All the results are referred to the declared unit (see § 4).

Silancolor Cleaner Plus

Table 6: Silancolor Cleaner Plus : Environmental categories referred to the declared unit			
Environn	nental category	Unit	A1-A3
	GWP ₁₀₀	(kg CO ₂ eq.)	5,56E-01
	ADPe (element)	(kg Sb eq.)	6,09E-05
	ADPf (fossil)	(MJ)	9,86E+00
	AP	(kg SO ₂ eq.)	7,18E-03
	EP	(kg (PO ₄) ³⁻ eq.)	1,03E-03
	ODP	(kg R-11 eq.)	6,58E-06
	РОСР	(kg ethylene eq.)	4,50E-04
 GWP₁₀₀: Global Warming Potential; ADPe: Abiotic Depletion Potential (elements); EP: Eutrophication Potential; AP: Acidification Potential; POCP: Photochemical Ozone Creation Potential; ODP: Ozone Depletion Potential; ADPf: Abiotic Depletion Potential (fossil) 			

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Silancolor Cleaner Plus Silancolor Primer Plus Silancolor Base Coat Plu Silancolor Pittura Plus Silancolor Tonachino Plu

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Table 7: Silancolor Cleaner Plus: other environmental indicators referred to the declared unit		
Environmental Indicator	Unit	A1-A3
RPEE	MJ	9,44E-01
RPEM	MJ	-
TPE	MJ	9,44E-01
NRPE	МЈ	1,11E+01
NRPM	МЈ	-
TRPE	МЈ	1,11E+01
SM	kg	-
RSF	МЈ	-
NRSF	МЈ	-
W	m ³	6,63E-03

Table 8: Silancolor Cleaner Plus: waste production and other output flows referred to the declared unit		
Output flow	Unit	A1-A3
NHW	kg	1,42E-02
НW	kg	2,43E-03
RW	kg	0,00E+00
Components for re-use	kg	-
Materials for recycling	kg	-
Materials for energy recovery	kg	-
Exported energy	МЈ	-
HW Hazardous waste disposed; NHW Non Hazardous waste disposed; RW Radioactive waste disposed		



Silancolor Primer Plus

Table 9: Silancolor Primer Plus: Environmental categories referred to the declared unit			
Environmental category Unit A1-A3			A1-A3
	GWP ₁₀₀	(kg CO2 eq.)	3,55E-01
	ADPe (element)	(kg Sb eq.)	3,63E-04
	ADPf (fossil)	(UM)	7,05E+00
	АР	(kg SO ₂ eq.)	2,00E-03
	EP	(kg (PO ₄) ³⁻ eq.)	2,41E-04
	ODP	(kg R-11 eq.)	8,23E-07
	РОСР	(kg ethylene eq.)	1,76E-04
GWP ₁₀₀ : Global Warming Potential; ADPe: Abiotic Depletion Potential (elements); EP: Eutrophication Potential; AP: Additional Potential: POCP: Depterbarries, Orange Creation Potential: OPP: Orange Depletion Potential;			

AP: Aciditation Potential, POCP: Photochemical Ozone Creation Potential; ODP: Ozone Depletion Potential; ADPf: Abiotic Depletion Potential (fossil)

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Table 10: Silancolor Primer Plus: other environmental indicators referred to the declared unit		
Environmental Indicator	Unit	A1-A3
RPEE	МЈ	8,53E-01
RPEM	МЈ	-
TPE	МЈ	8,53E-01
NRPE	МЈ	7,61E+00
NRPM	МЈ	-
TRPE	МЈ	7,61E+00
SM	kg	-
RSF	МЈ	-
NRSF	МЈ	-
W	m³	4,77E-03

Table 11: Silancolor Primer Plus: waste production and other output flows referred to the declared unit		
Output flow	Unit	A1-A3
NHW	kg	1,42E-02
НW	kg	2,43E-03
RW	kg	0,00E+00
Components for re-use	kg	-
Materials for recycling	kg	-
Materials for energy recovery	kg	-
Exported energy	МЈ	-
HW Hazardous waste disposed; NHW Non Hazardous waste disposed; RW Radioactive waste disposed		

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Silancolor Base Coat Plus

Table 12: Silancolor Base Coat Plus: Environmental categories referred to the declared unit			
Environn	nental category	Unit	A1-A3
	GWP ₁₀₀	(kg CO₂ eq.)	7,32E-01
	ADPe (element)	(kg Sb eq.)	2,57E-03
	ADPf (fossil)	(UM)	1,53E+01
	АР	(kg SO ₂ eq.)	1,17E-02
	EP	(kg (PO ₄) ³⁻ eq.)	4,53E-04
	ODP	(kg R-11 eq.)	6,82E-07
	РОСР	(kg ethylene eq.)	5,49E-04
GWP ₁₀₀ : Global Warming Potential; ADPe: Abiotic Depletion Potential (elements); EP: Eutrophication Potential; AP: Acidification Potential: POCP: Photochemical Ozone Creation Potential: OPP: Ozone Depletion Potential:			

GWP₁₀₀[•] Global Warming Potential; **ADPe**: Abiotic Depletion Potential (elements); **EP**: Eutrophication Potential; **AP**: Acidification Potential; **POCP**: Photochemical Ozone Creation Potential; **ODP**: Ozone Depletion Potential; **ADPf**: Abiotic Depletion Potential (fossil) Silancolor Cleaner Plus Silancolor Primer Plus Silancolor Base Coat Plus Silancolor Pittura Plus Silancolor Tonachino Plus





Table 13: Silancolor Base Coat Plus: other environmental indicators referred to the declared unit		
Unit	A1-A3	
МЈ	9,94E-01	
МЈ	-	
МЈ	9,94E-01	
МЈ	1,63E+01	
МЈ	-	
МЈ	1,63E+01	
kg	-	
МЈ	-	
МЈ	-	
m ³	6,23E-03	
	Unit MJ MJ	

Table 14: Silancolor Base Coat Plus: waste production and other output flows referred to the declared unit

Output flow	Unit	A1-A3
NHW	kg	1,42E-02
HW	kg	2,43E-03
RW	kg	0,00E+00
Components for re-use	kg	-
Materials for recycling	kg	-
Materials for energy recovery	kg	-
Exported energy	МЈ	-
HW Hazardous waste disposed; NHW Non Hazardous waste disposed; RW Radioactive waste disposed		



Silancolor Pittura Plus

Table 15: Silancolor P	Table 15: Silancolor Pittura Plus : Environmental categories referred to the declared unit			
Environn	nental category	Unit	A1-A3	
	GWP ₁₀₀	(kg CO2 eq.)	1,22E+00	
	ADPe (element)	(kg Sb eq.)	3,24E-03	
	ADPf (fossil)	(MJ)	2,25E+01	
	АР	(kg SO ₂ eq.)	2,51E-02	
	EP	(kg (PO₄)³-eq.)	7,14E-04	
	ODP	(kg R-11 eq.)	1,10E-06	
	РОСР	(kg ethylene eq.)	1,09E-03	
GWP ₁₀₀ ; Global Warming Potential; ADPe: Abiotic Depletion Potential (elements); EP: Eutrophication Potential; ADP: Addification Detential; DCCP: Detector protocol and a contract of the potential; DCP: Orange Depletion Detential;				

AP: Aciditation Potential, POCP: Photochemical Ozone Creation Potential; ODP: Ozone Depletion Potential; ADPf: Abiotic Depletion Potential (fossil)

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Table 16: Silancolor Pittura Plus: other environmental indicators referred to the declared unit			
Environmental Indicator	Unit	A1-A3	
RPEE	MJ	1,69E+00	
RPEM	МЈ	-	
TPE	MJ	1,69E+00	
NRPE	МЈ	2,44E+01	
NRPM	МЈ	-	
TRPE	МЈ	2,44E+01	
SM	kg	-	
RSF	МЈ	-	
NRSF	МЈ	-	
W	m ³	9,63E-03	

Table 17: Silancolor Pittura Plus: waste production and other output flows referred to the declared unit			
Output flow	Unit	A1-A3	
NHW	kg	1,42E-02	
HW	kg	2,43E-03	
RW	kg	0,00E+00	
Components for re-use	kg	-	
Materials for recycling	kg	-	
Materials for energy recovery	kg	-	
Exported energy	МЈ	-	
HW Hazardous waste disposed; NHW Non Hazardous waste disposed; RW Radioactive waste disposed			



Silancolor Tonachino Plus

(Grain Size: 0,7 mm)

Table 18: Silancolor T	Table 18: Silancolor Tonachino Plus (0.7 mm): Environmental categories referred to the declared unit			
Environn	nental category	Unit	A1-A3	
	GWP ₁₀₀	(kg CO ₂ eq.)	5,92E-01	
	ADPe (element)	(kg Sb eq.)	2,18E-03	
	ADPf (fossil)	(MJ)	1,27E+01	
	АР	(kg SO ₂ eq.)	7,26E-03	
	EP	(kg (PO ₄) ³⁻ eq.)	4,45E-04	
	ODP	(kg R-11 eq.)	9,05E-07	
	РОСР	(kg ethylene eq.)	3,81E-04	
GWP ₁₀₀ : Global Warming Potential; ADPe: Abiotic Depletion Potential (elements); EP: Eutrophication Potential; AP: Acidification Potential; POCP: Photochemical Ozone Creation Potential; ODP: Ozone Depletion Potential; ADPf. Abiotic Depletion Potential (fossil)				

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Table 19: Silancolor Tonachino Plus (0.7 mm): other environmental indicators referred to the declared unit			
Environmental Indicator	Unit	A1-A3	
RPEE	MJ	9,72E-01	
RPEM	MJ	-	
TPE	MJ	9,72E-01	
NRPE	МЈ	1,36E+01	
NRPM	МЈ	-	
TRPE	МЈ	1,36E+01	
SM	kg	-	
RSF	МЈ	-	
NRSF	МЈ	-	
W	m ³	5,48E-03	

Table 20: **Silancolor Tonachino Plus** (0.7 mm): waste production and other output flows referred to the declared unit

Output flow	Unit	A1-A3
NHW	kg	1,42E-02
HW	kg	2,43E-03
RW	kg	0,00E+00
Components for re-use	kg	-
Materials for recycling	kg	-
Materials for energy recovery	kg	-
Exported energy	МЈ	-
HW Hazardous waste disposed; NHW Non Hazardous waste disposed; RW Radioactive waste disposed		



Silancolor Tonachino Plus

(Grain Size: 1,2 mm)

Table 21: Silancolor Tonachino Plus (1.2 mm): Environmental categories referred to the declared unit			
Environn	nental category	Unit	A1-A3
	GWP ₁₀₀	(kg CO ₂ eq.)	5,63E-01
	ADPe (element)	(kg Sb eq.)	2,18E-03
	ADPf (fossil)	(LM)	1,24E+01
	АР	(kg SO ₂ eq.)	6,20E-03
	EP	(kg (PO ₄) ³⁻ eq.)	4,30E-04
	ODP	(kg R-11 eq.)	8,94E-07
	РОСР	(kg ethylene eq.)	3,44E-04
CWP ₁₀₀ [:] Global Warming Potential; ADPe : Abiotic Depletion Potential (elements); EP : Eutrophication Potential; AP : Acidification Potential; POCP : Photochemical Ozone Creation Potential; ODP : Ozone Depletion Potential; ADPf : Abiotic Depletion Potential (fossil)			

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Table 22: Silancolor Tonachino Plus (1.2 mm): other environmental indicators referred to the declared unit			
Environmental Indicator	Unit	A1-A3	
RPEE	MJ	9,27E-01	
RPEM	МЈ	-	
TPE	MJ	9,27E-01	
NRPE	МЈ	1,32E+01	
NRPM	МЈ	-	
TRPE	МЈ	1,32E+01	
SM	kg	-	
RSF	МЈ	-	
NRSF	МЈ	-	
W	m ³	5,18E-03	

Table 23: **Silancolor Tonachino Plus** (1.2 mm): waste production and other output flows referred to the declared unit

Output flow	Unit	A1-A3
NHW	kg	1,42E-02
HW	kg	2,43E-03
RW	kg	0,00E+00
Components for re-use	kg	-
Materials for recycling	kg	-
Materials for energy recovery	kg	-
Exported energy	МЈ	-
HW Hazardous waste disposed; NHW Non Hazardous waste disposed; RW Radioactive waste disposed		



Silancolor Tonachino Plus

(Grain Size: 1,5 mm)

Table 24: Silancolor 1	Table 24: Silancolor Tonachino Plus (1.5 mm): Environmental categories referred to the declared unit			
Environn	nental category	Unit	A1-A3	
M	GWP ₁₀₀	(kg CO ₂ eq.)	5,80E-01	
	ADPe (element)	(kg Sb eq.)	2,17E-03	
	ADPf (fossil)	(LM)	1,26E+01	
	AP	(kg SO ₂ eq.)	6,07E-03	
	EP	(kg (PO ₄) ³⁻ eq.)	6,58E-04	
	ODP	(kg R-11 eq.)	7,74E-07	
	РОСР	(kg ethylene eq.)	3,42E-04	
: GWP₁₀₀ ; Global Warming Potential; ADPe : Abiotic Depletion Potential (elements); EP : Eutrophication Potential; AP : Acidification Potential; POCP : Photochemical Ozone Creation Potential; ODP : Ozone Depletion Potential; ADPf : Abiotic Depletion Potential (fossil)				

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Table 26: **Silancolor Tonachino Plus** (1.5 mm): waste production and other output flows referred to the declared unit

Output flow	Unit	A1-A3
NHW	kg	1,42E-02
HW	kg	2,43E-03
RW	kg	0,00E+00
Components for re-use	kg	-
Materials for recycling	kg	-
Materials for energy recovery	kg	-
Exported energy	МЈ	-
HW Hazardous waste disposed; NHW Non Hazardous waste disposed; RW Radioactive waste disposed		

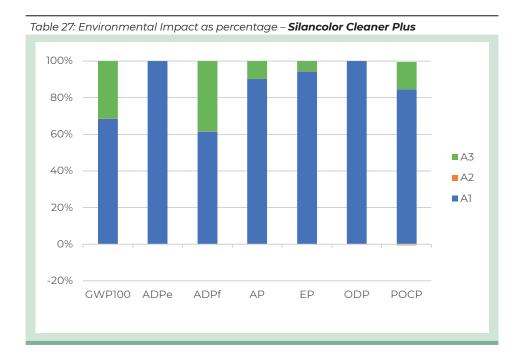


Tables above (from Table 6 to Table 26) and following histograms (from Table 27 to Table 31) show absolute results and relative contribution for the environmental categories considered in this EPD. The module A1 (raw materials extraction and processing) has the greatest contribution for all the environmental categories included in this study (up to 99%).

Considering ODP and ADPe, module **A1** highlights a relative contribution close to 100% for all the products included in this EPD.

A GWP $_{100}$ detail (Table 32) shows that polymeric dispersions, pigments and biocides give a significant contribution.

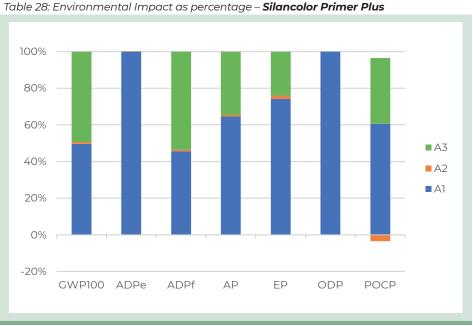
The module A2 (raw materials transportation) gives a negative contribution to POCP due to the NO and NO₂ emission factors (for more details, see the methodology used: *HBEFA -Handbook Emission Factors for Road Transport*).

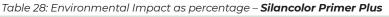


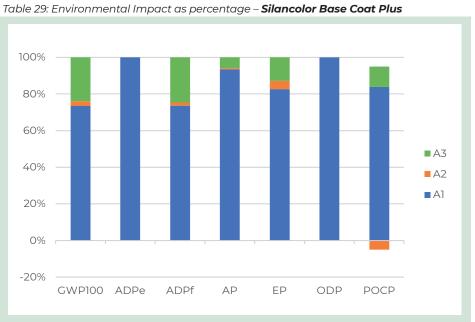
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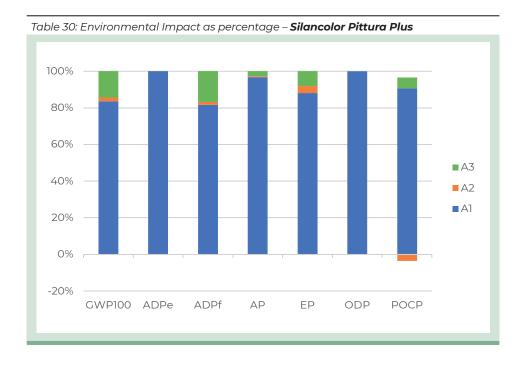






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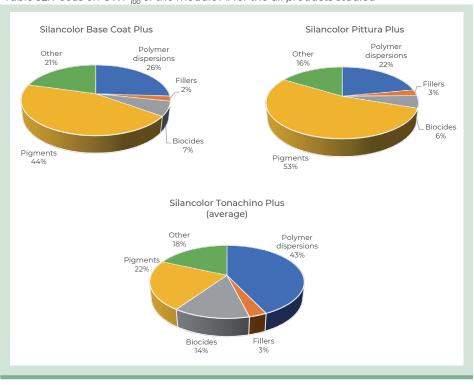


Table 32: Focus on GWP_{100} of the module A1 for the all products studied

More details about electrical mix used in this EPD, is shown below:

	Data source	Amount	Unit
Electricity grid mix (IT) – 2016	GaBi database	0,4247	kg CO ₂ -eqv/kWh
Electricity from photovoltaic (IT) – 2016	GaBi database	0,0629	kg CO ₂ -eqv/kWh





8. DATA QUALITY

Table 33: Data quality		
Dataset & Geographical reference	Database (source)	Temporary reference
	A1; A3	
Fillers (EU)	GaBi Database	2018
Additives (EU)	GaBi Database; ecoinvent 3.5	2013 – 2018
Polymer Dispersions (EU)	EcoProfile EPDLA	2015
Electricity grid mix (IT)	GaBi Database	2016
Electricity from photovoltaic (IT)	GaBi Database	2016
Additives & others (Packaging components)	GaBi Database; ecoinvent 3.5; PlasticsEurope	2005 – 2018
A2		
Truck transport (euro 3, 27t payload – GLO)	GaBi Database	2018
Diesel for transport (EU)	GaBi Database	2016

All data included in table above refer to a period between 2005 and 2018; the most relevant ones are European or specific from supplier, while the others (i.e. transport and minor contribution dataset) come from European and global databases.

All dataset are not more than 10 years old (according to EN 15804 § 6.3.7 "*Data quality requirements*"). Unique exception is due to one packaging component coming from PlasticsEurope database.

Primary data concern the year 2018 and represent the whole annual production.





9. VERIFICATION AND REGISTRATION

EPD of construction products may not be comparable if they do not comply with EN 15804.

Environmental product declarations within the same product category from different programs may not be comparable.

PCR:	PCR 2012:01 Construction products and Construction services, Version 2.3, 2018-11-15
PCR review was conducted by:	The Technical Committee of the International EPD® System. Chair: Massimo Marino Contact via info@environdec.com
Independent verification of the declaration and data, according to ISO 14025	 EPD Process Certification (Internal) EPD Verification (external)
Third party verifier:	Certiquality S.r.l. Number of accreditation: 003H rev15
Accredited or approved by:	Accredia
Procedure for follow-up of data during EPD validity involves third-party verifier	⊠ Yes □ No

CEN standard EN15804 served as the core PCR

12. REFERENCES

- EN15804:SUSTAINABILITY OF CONSTRUCTION WORKS-ENVIRONMENTAL PRODUCT DECLARATIONS - CORE RULES FOR THE PRODUCT CATEGORY OF CONSTRUCTION PRODUCTS
- EN 15824: SPECIFICATIONS FOR EXTERNAL RENDERS AND INTERNAL
 PLASTERS BASED ON ORGANIC BINDERS
- GENERAL PROGRAMME INSTRUCTIONS OF THE INTERNATIONAL EPD®
 SYSTEM. VERSION 3.0
- HBEFA HANDBOOK EMISSION FACTORS FOR ROAD TRANSPORT
- ISO 14025 ENVIRONMENTAL LABELS AND DECLARATIONS TYPE III
 ENVIRONMENTAL DECLARATIONS PRINCIPLES AND PROCEDURES
- ISO 14044 ENVIRONMENTAL MANAGEMENT LIFE CYCLE ASSESSMENT – REQUIREMENTS AND GUIDELINES
- PCR 2012:01; "PRODUCT GROUP CLASSIFICATION: MULTIPLE UN CPC CODES CONSTRUCTION PRODUCTS AND CONSTRUCTION SERVICES"; VERSION 2.3



CONTACT INFORMATION

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Silancolor Cleaner Plus Silancolor Primer Plus Silancolor Base Coat Plus Silancolor Pittura Plus Silancolor Tonachino Plus





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