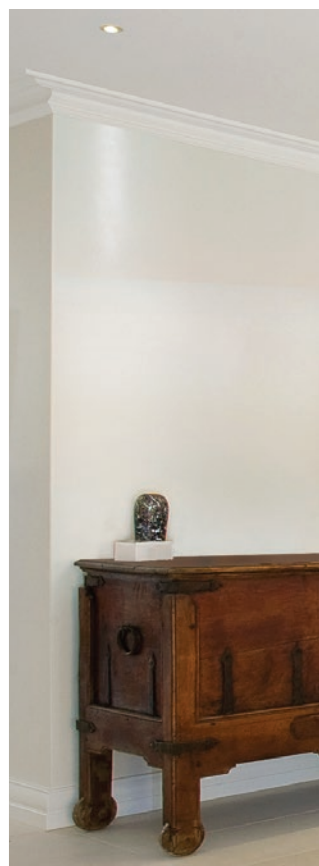
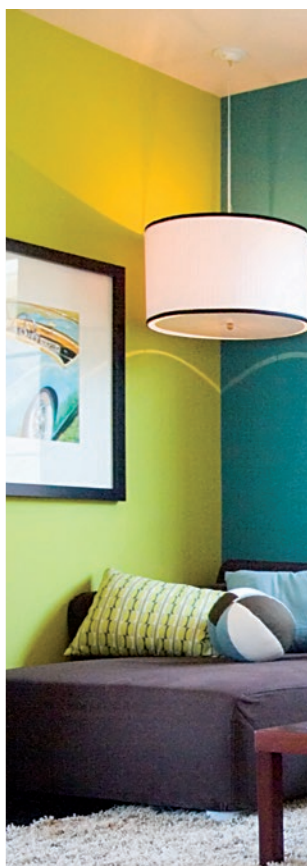




ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 for

***Colorite Matt, Dursilite,
Dursilite Matt, Dursilite Plus,
Dursilite Gloss***



Programme:
**The International
EPD® System;**
www.environdec.com

Programme operator:
EPD International AB

EPD registration
number:
S-P-01005

Approval
date:
2017-02-13

Valid until:
2022-02-12

Geographical
scope:
International





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 is also specialized in other chemical products used in the building industry, such as waterproofing products, special mortars, admixtures for concrete, products for underground constructions and for the restoration of concrete and historical buildings.

There are currently 81 subsidiaries in Mapei Group, with a total of 73 production facilities located around the world in 33 different countries and in 5 different continents. Mapei has also 18 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 the lowest transport costs possible. With the declared objective of being close to buyers and clients, the strength of Mapei in the five continents is to comply the requirements of each single country, and to use only locally-based managers and qualified personnel, without changing the approach of the Company.

Mapei invests 12% of 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 main green rating 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.

Mapei Italian plants are located in Robbiano di Mediglia, Latina and Sassuolo.

The goal of the study is to provide necessary data and documentation to produce an EPD according to the requirements of PCR according to EN 15804:2014 and PCR Environdec, version 2.01, date 2016-03-09 and to have more comprehension about the environmental impacts related to Colorite Matt, Dursilite, Dursilite Matt, Dursilite Plus and Dursilite Gloss manufactured in Mapei S.p.A. located in Robbiano di Mediglia (MI-ITALY).

Target audiences of the study are customers and other parties with an interest in the environmental impacts of **Colorite Matt**, **Dursilite**, **Dursilite Matt**, **Dursilite Plus** and **Dursilite Gloss**.

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

2. PRODUCT DESCRIPTION

Colorite Matt is a highly-transparent water-based paint for internal application, with excellent hiding power.

Dursilite is a washable water-based paint for internal application, with low dirt pick-up and excellent workability.

Dursilite Matt is a transparent, high opacity, washable water-based wall paint for internal application.

Dursilite Plus is a hygienising, washable and traspirant wall paint which is resistant to mould, for internal surfaces.

Dursilite Gloss is a semi-gloss enamel wall paint for internal surfaces; long-lasting, high quality, stain-resistant finish.

Products are supplied as follows:

Colorite Matt, Dursilite, Dursilite Matt, Dursilite Plus: bucket with 20kg and 5kg of paint on wooden pallet wrapped with LPDE.

Dursilite Gloss: bucket with 16kg and 4kg of paint on wooden pallet wrapped with LPDE.

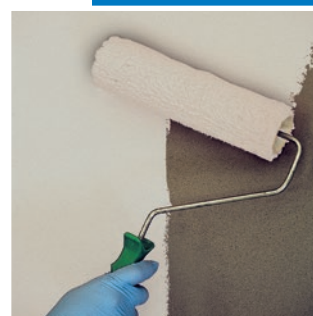
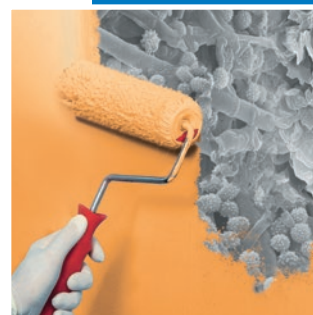
3. CONTENT DECLARATION

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

Table 1: Composition

Materials	Percentage (%)
Polymer dispersions	< 50
Fillers	< 40
Biocides	< 0,1
Other (additives & packaging)	< 5
Water	< 30

This product contains no substances of very high concern (SVHC) on the REACH Candidate List published by the European Chemicals Agency in a concentration more than 0,1 % (by unit weight).



Colorite Matt
Dursilite
Dursilite Matt
Dursilite Plus
Dursilite Gloss



4. DECLARED UNIT AND REFERENCE SERVICE LIFE:

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

Packaging materials include:

- Wooden pallet
- Polypropylene bucket
- LDPE for wrapping

According to the system boundary applied (see chapter 5), RSL is not specified in this study.

5. SYSTEM BOUNDARIES & ADDITIONAL TECHNICAL INFORMATION:

The approach is a “cradle to gate” with options. The following modules have been considered:

- A1-A3 (production stage): extraction and transport of raw materials, packaging included, production process.
- A4 (Construction process stage): transport of the finished product to final customers

Table 2: System boundaries (X=included, MND= module not declared)

Product stage			Assembly stage	Use stage								End of life stage				
Upstream	Core	Downstream														
Raw materials	Transport	Manufacturing	Transport	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	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND

A brief description of production process is the following:

Figure 1: Production process detail



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 their 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.

Colorite Matt
Dursilite
Dursilite Matt
Dursilite Plus
Dursilite Gloss



Table 3: Transport to the building site (A4)

Name	Value	Unit
Means of transport : truck euro 3 with 27 tons of payload		
Litres of fuel (truck)	~ 2E-03	l/DU*100km
Transport distance	850	km
Capacity utilisation (including empty runs)	85	%
Gross density of products transported	1300 to 1650	kg/m ³
Capacity utilisation volume factor	100	%
DU: declared unit		

6. CUT-OFF RULES & 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 following procedure is followed for the exclusion of inputs and outputs:

- All inputs and outputs to a unit process are included in the calculation, for which data are available.
- Less than 1 % of the total mass inputs / outputs of the unit process A1 and A3, are cut off (see Table 4).

Input flows are covered for the whole formula.

Table 4: Cut-off criteria

Process excluded from study	Cut-off criteria	Quantified contribution from process
A3: production (auxiliary materials)	less than 10E-05 kg / kg of finished product	less than 10E-05 kg / kg of finished product
A3: waste	less than 10E-05 kg / kg of finished product	less than 10E-05 kg / kg of finished product

For the allocation procedure and principles, consider the following table (Table 5):

Table 5: Allocation procedure and principles

Module	Allocation Principle
A1; A2	All data are referred to 1kg of product <ul style="list-style-type: none"> • A1: electricity is allocated to the whole plant production
A3; A4	All data are referred to 1kg of packaged product <ul style="list-style-type: none"> • A3-wastes: all data are allocated to the whole plant production

Colorite Matt
Dursilite
Dursilite Matt
Dursilite Plus
Dursilite Gloss



7. ENVIRONMENTAL PERFORMANCE & INTERPRETATION

Tables show environmental impacts for the considered products according to CML methodology (2010 - Apr2013, version 4.2).

Colorite Matt

Table 6: **Colorite Matt** Environmental categories

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
 GWP₁₀₀	kg CO ₂ eq.	6,55E-01	4,48E-02
 ADP_e (element)	kg Sb eq.	1,12E-03	2,95E-09
 EP	kg (PO ₄) ³⁻ eq.	4,90E-04	6,97E-05
 AP	kg SO ₂ eq.	7,16E-03	2,78E-04
 POCP	kg ethylene eq.	3,98E-04	-1,16E-04
 ODP	kg R-11 eq.	2,91E-07	2,03E-13
 ADP_f (fossil)	MJ	1,26E+01	6,10E-01

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)

Table 7: **Colorite Matt** other environmental indicators

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
RPEE	MJ	9,32E-01	3,46E-02
RPEM	MJ	-	-
TPE	MJ	9,32E-01	3,46E-02
NRPE	MJ	1,39E01	6,12E-01
NRPM	MJ	-	-
TRPE	MJ	1,39E01	6,12E-01
SM	kg	-	-
RSF	MJ	-	-
NRSF	MJ	-	-
W	m ³	5,95E-03	9,87E-04

RPEE Renewable primary energy as energy carrier; **RPEM** Renewable primary energy as material utilisation; **TPE** Total use of renewable primary energy sources; **NRPE** Non-renewable primary energy as energy carrier; **NRPM** Non-renewable primary energy as material utilization; **TRPE** Total use of non-renewable primary energy sources; **SM** Use of secondary materials; **RSF** Renewable secondary fuels; **NRSF** Non-renewable secondary fuels; **W** Net use of fresh water [total freshwater consumption]

Table 8: **Colorite Matt** waste production & other output flows

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
NHW	kg	4,75E-03	-
HW	kg	2,05E-05	-
RW	kg	0,00E00	-
Components for re-use	kg	-	-
Materials for recycling	kg	-	-
Materials for energy recovery	kg	-	-
Exported energy	MJ	-	-



HW Hazardous waste disposed; **NHW** Non Hazardous waste disposed; **RW** Radioactive waste disposed

Colorite Matt
Dursilite
Dursilite Matt
Dursilite Plus
Dursilite Gloss



Dursilite

Table 9: **Dursilite** Environmental categories

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
 GWP₁₀₀	kg CO ₂ eq.	1,55E+00	4,48E-02
 ADP_e (element)	kg Sb eq.	9,23E-04	2,95E-09
 EP	kg (PO ₄) ³⁻ eq.	7,14E-04	6,97E-05
 AP	kg SO ₂ eq.	3,14E-02	2,78E-04
 POCP	kg ethylene eq.	1,43E-03	-1,16E-04
 ODP	kg R-11 eq.	3,09E-07	2,03E-13
 ADP_f (fossil)	MJ	2,74E+01	6,09E-01

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)

Table 10: **Dursilite** other environmental indicators

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
RPEE	MJ	1,79E00	3,46E-02
RPEM	MJ	-	-
TPE	MJ	1,79E00	3,46E-02
NRPE	MJ	3,01E01	6,12E-01
NRPM	MJ	-	-
TRPE	MJ	3,01E01	6,12E-01
SM	kg	-	-
RSF	MJ	-	-
NRSF	MJ	-	-
W	m³	1,34E-02	9,87E-04

RPEE Renewable primary energy as energy carrier; **RPEM** Renewable primary energy as material utilisation; **TPE** Total use of renewable primary energy sources; **NRPE** Non-renewable primary energy as energy carrier; **NRPM** Non-renewable primary energy as material utilization; **TRPE** Total use of non-renewable primary energy sources; **SM** Use of secondary materials; **RSF** Renewable secondary fuels; **NRSF** Non-renewable secondary fuels; **W** Net use of fresh water [total freshwater consumption]

Table 11: **Dursilite** waste production & other output flows

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
NHW	kg	4,75E-03	-
HW	kg	2,05E-05	-
RW	kg	0,00E00	-
Components for re-use	kg	-	-
Materials for recycling	kg	-	-
Materials for energy recovery	kg	-	-
Exported energy	MJ	-	-




HW Hazardous waste disposed; **NHW** Non Hazardous waste disposed; **RW** Radioactive waste disposed

Colorite Matt
Dursilite
Dursilite Matt
Dursilite Plus
Dursilite Gloss



Dursilite Matt

Table 12: **Dursilite Matt** Environmental categories

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
 GWP₁₀₀	kg CO ₂ eq.	9,88E-01	4,48E-02
 ADP_e (element)	kg Sb eq.	1,75E-03	2,95E-09
 EP	kg (PO ₄) ³⁻ eq.	5,27E-04	6,97E-05
 AP	kg SO ₂ eq.	1,78E-02	2,78E-04
 POCP	kg ethylene eq.	8,17E-04	-1,16E-04
 ODP	kg R-11 eq.	3,05E-07	2,03E-13
 ADP_f (fossil)	MJ	1,86E+01	6,09E-01

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)

Table 13: **Dursilite Matt** other environmental indicators

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
RPEE	MJ	1,22E00	3,46E-02
RPEM	MJ	-	-
TPE	MJ	1,22E00	3,46E-02
NRPE	MJ	2,03E01	6,12E-01
NRPM	MJ	-	-
TRPE	MJ	2,03E01	6,12E-01
SM	kg	-	-
RSF	MJ	-	-
NRSF	MJ	-	-
W	m ³	8,07E-03	9,87E-04

RPEE Renewable primary energy as energy carrier; **RPEM** Renewable primary energy as material utilisation; **TPE** Total use of renewable primary energy sources; **NRPE** Non-renewable primary energy as energy carrier; **NRPM** Non-renewable primary energy as material utilization; **TRPE** Total use of non-renewable primary energy sources; **SM** Use of secondary materials; **RSF** Renewable secondary fuels; **NRSF** Non-renewable secondary fuels; **W** Net use of fresh water [total freshwater consumption]

Table 14: **Dursilite Matt** waste production & other output flows

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
NHW	kg	4,75E-03	-
HW	kg	2,05E-05	-
RW	kg	0,00E00	-
Components for re-use	kg	-	-
Materials for recycling	kg	-	-
Materials for energy recovery	kg	-	-
Exported energy	MJ	-	-


HW Hazardous waste disposed; **NHW** Non Hazardous waste disposed; **RW** Radioactive waste disposed

Colorite Matt
Dursilite
Dursilite Matt
Dursilite Plus
Dursilite Gloss



Dursilite Plus

Table 15: **Dursilite Plus** Environmental categories

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
 GWP₁₀₀	kg CO ₂ eq.	1,01E+00	4,48E-02
 ADP_e (element)	kg Sb eq.	1,75E-03	2,95E-09
 EP	kg (PO ₄) ³⁻ eq.	5,65E-04	6,97E-05
 AP	kg SO ₂ eq.	1,82E-02	2,78E-04
 POCP	kg ethylene eq.	8,42E-04	-1,16E-04
 ODP	kg R-11 eq.	6,34E-07	2,03E-13
 ADP_f (fossil)	MJ	1,90E+01	6,09E-01

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)

Table 16: **Dursilite Plus** other environmental indicators

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
RPEE	MJ	1,24E00	3,46E-02
RPEM	MJ	-	-
TPE	MJ	1,24E00	3,46E-02
NRPE	MJ	2,07E01	6,12E-01
NRPM	MJ	-	-
TRPE	MJ	2,07E01	6,12E-01
SM	kg	-	-
RSF	MJ	-	-
NRSF	MJ	-	-
W	m ³	8,32E-03	9,87E-04

RPEE Renewable primary energy as energy carrier; **RPEM** Renewable primary energy as material utilisation; **TPE** Total use of renewable primary energy sources; **NRPE** Non-renewable primary energy as energy carrier; **NRPM** Non-renewable primary energy as material utilization; **TRPE** Total use of non-renewable primary energy sources; **SM** Use of secondary materials; **RSF** Renewable secondary fuels; **NRSF** Non-renewable secondary fuels; **W** Net use of fresh water [total freshwater consumption]

Table 17: **Dursilite Plus** waste production & other output flows


System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
NHW	kg	4,75E-03	-
HW	kg	2,05E-05	-
RW	kg	0,00E00	-
Components for re-use	kg	-	-
Materials for recycling	kg	-	-
Materials for energy recovery	kg	-	-
Exported energy	MJ	-	-

HW Hazardous waste disposed; **NHW** Non Hazardous waste disposed; **RW** Radioactive waste disposed

Colorite Matt
Dursilite
Dursilite Matt
Dursilite Plus
Dursilite Gloss

Dursilite Gloss

Table 18: **Dursilite Gloss** Environmental categories

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
 GWP₁₀₀	kg CO ₂ eq.	2,07E+00	4,55E-02
 ADP_e (element)	kg Sb eq.	8,27E-03	2,99E-09
 EP	kg (PO ₄) ³⁻ eq.	1,15E-03	7,08E-05
 AP	kg SO ₂ eq.	4,15E-02	2,83E-04
 POCP	kg ethylene eq.	1,93E-03	-1,18E-04
 ODP	kg R-11 eq.	2,64E-07	2,07E-13
 ADP_f (fossil)	MJ	4,03E+01	6,19E-01

GWP₁₀₀: Global Warming Potential; **ADP_e**: Abiotic Depletion Potential (elements); **EP**: Eutrophication Potential; **AP**: Acidification Potential; **POCP**: Photochemical Ozone Creation Potential; **ODP**: Ozone Depletion Potential; **ADP_f**: Abiotic Depletion Potential (fossil)

Table 19: **Dursilite Gloss** other environmental indicators

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
RPEE	MJ	1,79E00	3,46E-02
RPEM	MJ	-	-
TPE	MJ	1,79E-01	3,46E-02
NRPE	MJ	4,29E01	6,12E-01
NRPM	MJ	-	-
TRPE	MJ	4,29E01	6,12E-01
SM	kg	-	-
RSF	MJ	-	-
NRSF	MJ	-	-
W	m ³	1,17E-02	9,87E-04

RPEE Renewable primary energy as energy carrier; **RPEM** Renewable primary energy as material utilisation; **TPE** Total use of renewable primary energy sources; **NRPE** Non-renewable primary energy as energy carrier; **NRPM** Non-renewable primary energy as material utilization; **TRPE** Total use of non-renewable primary energy sources; **SM** Use of secondary materials; **RSF** Renewable secondary fuels; **NRSF** Non-renewable secondary fuels; **W** Net use of fresh water [total freshwater consumption]

Table 20: **Dursilite Gloss** waste production & other output flows

System boundary		Upstream + core	Downstream
Parameter	Unit	A1-A3	A4
NHW	kg	4,75E-03	-
HW	kg	2,05E-05	-
RW	kg	0,00E00	-
Components for re-use	kg	-	-
Materials for recycling	kg	-	-
Materials for energy recovery	kg	-	-
Exported energy	MJ	-	-

HW Hazardous waste disposed; **NHW** Non Hazardous waste disposed; **RW** Radioactive waste disposed

Colorite Matt
Dursilite
Dursilite Matt
Dursilite Plus
Dursilite Gloss



Tables above show absolute results for every considered environmental impact category. They clearly indicate that module **A1** (raw materials), gives the highest contribution for each of them, up to 99% of the total impact in the whole system boundary.

In particular, if we talk about both ADPe and ODP, the contribute of module **A1** is close to 100%.

Module **A1** has a high impact also on GWP_{100} , as shown in Plot 1 (ndr: Contribution on GWP_{100}).

Polymer dispersions, fine aggregates and pigments, which are some of the main components in the formulation, carry a significant impact for all environmental categories. Biocides, which are contained in a concentration lower than 1% in the product, have a strong influence GWP_{100} value.

Module **A3** has an important weight in GWP_{100} due to energy consumption during production process (Kwh/Kg of finished product) and packaging components: for this reason, **A3** shows a relative contribute from 20% to 30% (according to the different products considered).

For the modules **A2** and **A4** (transport of raw materials and transport of finished product), POCP gives a negative contribution, due to nitrogen dioxide and monoxide emission factors, as reported in CML v.4.2 methodology.

Table 21: Environmental Impact as percentage (average of all products studied)

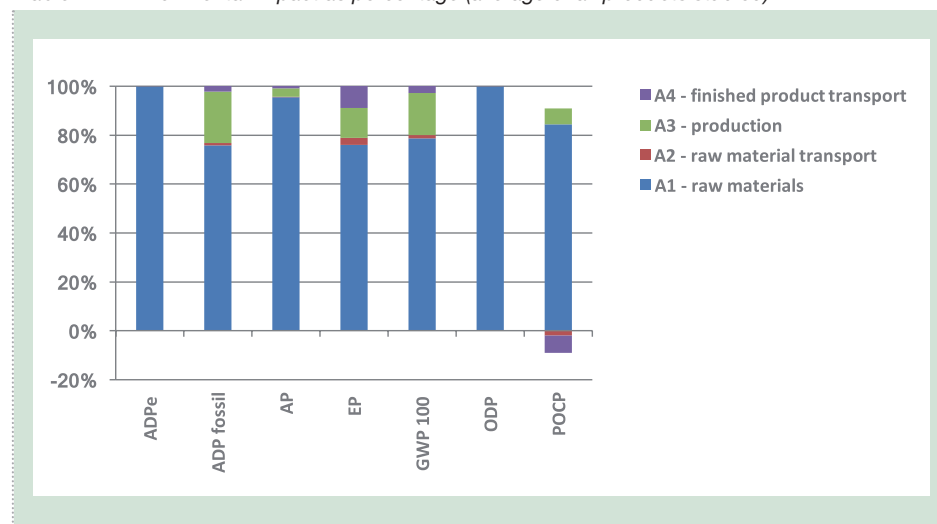
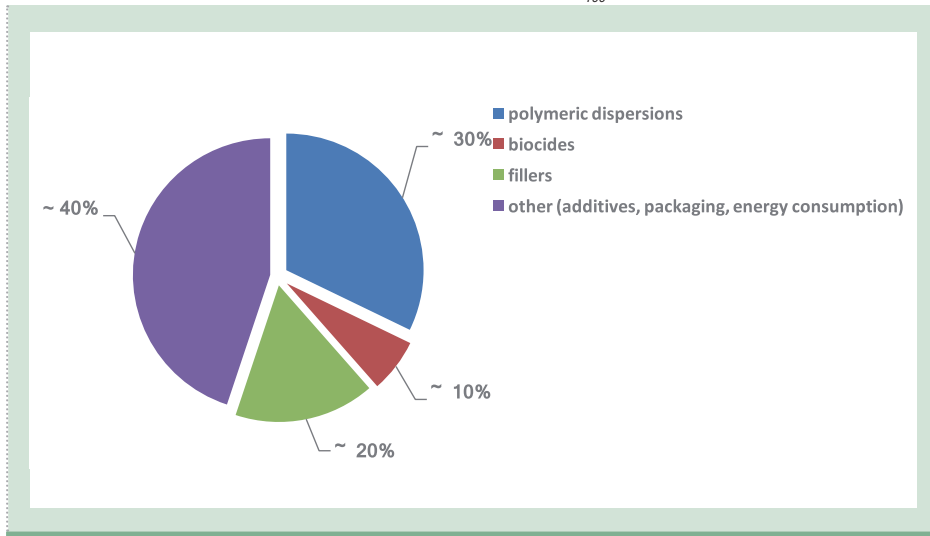


Table 21 represents relative average contributes for the environmental categories considered; just in order to have a focus about A1 contribute for GWP_{100} , following plot has been created:

Table 22: Focus on raw materials contributions (A1) on GWP₁₀₀



More details about electrical mix used in this EPD (Italian grid mix – 2012), is shown below:

Data source	Amount	Unit
GaBi (v6) database	0,468	kg CO ₂ -eqv/kWh

This data represents the average country specific electricity supply for final consumers, including electricity own consumption, transmission/distribution losses and electricity imports from neighbouring countries. The national energy carrier mixes used for electricity production, the power plant efficiency data, shares on direct to combined heat and power generation (CHP), as well as transmission/distribution losses and own consumption are taken from official statistics (International Energy Agency) for the corresponding reference year.

Also photovoltaic electricity in Mediglia plant has been used for the manufacturing process with the following emission factor (in terms of GWP₁₀₀ excluded biogenic carbon):

Data source	Amount	Unit
GaBi (v6) database	0,0314	kg CO ₂ -eqv/kWh

Colorite Matt
Dursilite
Dursilite Matt
Dursilite Plus
Dursilite Gloss



8. DATA QUALITY

Table 23: Data quality

Dataset & Geographical reference	Database (source)	Temporary reference
A1-A3		
Fillers (EU)	GaBi Database	2015
Additives (EU)	GaBi Database	2012 – 2015
EPDLA Life Cycle Inventory of Polymer Dispersions (EU)	EcoProfile EPDLA	2015
Electricity grid mix (IT)	GaBi Database	2012
Electricity from photovoltaic (IT)	GaBi Database	2012
A2-A4 (Transport)		
Truck transport (27ton payload – GLO)	GaBi Database	2015
Diesel for transport (EU)	GaBi Database	2012

Considered data refer to a period between 2012 and 2016; the most relevant ones are European or specific from supplier, while the others (i.e. transport and minor contribution dataset), come from European, global and german databases. All dataset are not more than 10 years old (according to EN 15804 § 6.3.7 “Data quality requirements”).

Primary data are collected during 2015 and representative for the entire annual production.

9. REQUISITE EVIDENCE

VOC emissions

Volatile Organic Compounds (VOC) special tests and evidence have been carried out on the products, according to ISO 16000 parts 3, 6, 9 and 11 and CN/TS 16516.

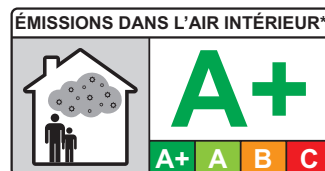
The paints have been evaluated in emission chambers, in order to detect their VOC emissions after 28 days storage in the ventilated chambers, to classify them with the suitable class in the French mandatory.

Colorite Matt, **Dursilite**, **Dursilite Matt**, **Dursilite Plus** and **Dursilite Gloss** meet the requirements for the emission class A+.

Next table describes the limits for the French A+ class:

Table 24: A+ class - VOC limits

	A+ Concentration $\mu\text{g}/\text{m}^3$
Formaldehyde	<10
Acetaldehyde	<200
Toluene	<300
Tetrachloroethylene	<250
Xylene	<200
1,2,4-Trimethylbenzene	<1000
1,4-Dichlorobenzene	<60
Ethylbenzene	<750
n-Butylacetate	<4800
2-Butoxyethanol	<1000
Styrene	<250
TVOC	<1000



* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions)

Colorite Matt
Dursilite
Dursilite Matt
Dursilite Plus
Dursilite Gloss

10. 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.

CEN standard EN15804 served as the core PCR	
PCR:	PCR 2012:01 Construction products and Construction services, Version 2.01, 2016-03-09
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	<input checked="" type="checkbox"/> EPD Process Certification (Internal) <input type="checkbox"/> EPD Verification (external)
Third party verifier:	Certiquality S.r.l. Number of accreditation: 003H rev14
Accredited or approved by:	Accredia

11. REFERENCES

- GENERAL PROGRAMME INSTRUCTIONS OF THE INTERNATIONAL EPD® SYSTEM. VERSION 2.5.
- PCR 2012:01; “PRODUCT GROUP CLASSIFICATION: MULTIPLE UN CPC CODES CONSTRUCTION PRODUCTS AND CONSTRUCTION SERVICES”; VERSION 2.01
- EN 15804: SUSTAINABILITY OF CONSTRUCTION WORKS, ENVIRONMENTAL PRODUCT DECLARATIONS, CORE RULES FOR THE PRODUCT CATEGORY OF CONSTRUCTION PRODUCTS
- ISO 14025: ENVIRONMENTAL LABELS AND DECLARATIONS -- TYPE III ENVIRONMENTAL DECLARATIONS -- PRINCIPLES AND PROCEDURES

CONTACT INFORMATION

CEN standard EN15804 served as the core PCR	
EPD owner:	<p>Mapei SpA www.mapei.it</p> <div>  </div>
LCA author:	<p>Mapei SpA www.mapei.it; Environmental Sustainability Office</p> <div>  </div>
Programme operator:	<p>EPD International AB info@environdec.com</p> <div>  </div>

Colorite Matt
 Dursilite
 Dursilite Matt
 Dursilite Plus
 Dursilite Gloss

SEDE

MAPEI SpA

Via Cafiero, 22 - 20158 Milano

Tel. +39-02-37673.1

Fax +39-02-37673.214

Internet: www.mapei.com

E-mail: mapei@mapei.it

