

# Environmental Product Declaration



In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

## **AGUAPLAST FILLERS / SPACHELMASSE**

From **BEISSIER S.A.U.**

**Beissier**

Programme:	The International EPD® System, <a href="http://www.environdec.com">www.environdec.com</a>
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*An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at [www.environdec.com](http://www.environdec.com)*

*This is an EPD for multiple products*



## General information

### Programme information

<b>Programme:</b>	The International EPD <sup>®</sup> System
<b>Address:</b>	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
<b>Website:</b>	<a href="http://www.environdec.com">www.environdec.com</a>
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CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product category rules (PCR): PCR 2019:14 Construction products (EN 15804:A2) Version 1.2.5
PCR review was conducted by: PCR review was conducted by: The Technical Committee of the International EPD <sup>®</sup> System. See <a href="http://www.environdec.com/TC">www.environdec.com/TC</a> for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat <a href="http://www.environdec.com/contact">www.environdec.com/contact</a> .
Independent third-party verification of the declaration and data, according to ISO 14025:2006: <input checked="" type="checkbox"/> External <input type="checkbox"/> Internal Covering <input type="checkbox"/> EPD process certification <input checked="" type="checkbox"/> EPD verification
Third party verifier:  Tecnalia R&I Certificacion, SL Auditor: Eva Larzabal <a href="mailto:info@tecnaliacertificacion.com">info@tecnaliacertificacion.com</a> Accredited by: ENAC nº125/C-PR283 accreditation.
Procedure for follow-up of data during EPD validity involves third party verifier:  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

## Company information

Owner of the EPD: Beissier S.A.U.

Description of the organisation:

Since its outset in 1930, BEISSIER has been associated with spearhead solutions for improving construction aesthetics, comfort and efficiency.

With a history spanning back over 100 years, BEISSIER presented itself in the XXI century as a solid, dynamic company, with prestigious brands and innovative solutions. This was down to active listening and close collaboration with professional painters. The new, efficient and modern production facilities, opened in 2001, finds BEISSIER manufacturing products under the strictest quality standards so as to guarantee products' on-site optimal performance.

The intensive work of our laboratory, coupled with research conducted with technological centres and universities, upholds the status of our R+D+i department as a forefront point of reference in the sector.

With extensive experience BEISSIER brands have been present in the main European markets since 1985, where they are renowned amongst professional painters and decorators.

BEISSIER has been certified in ISO 9001, ISO 14001 and ISO 45001. In BEISSIER's environmental management policy, we have some basic commitments, among others.

- To carry out the activities whilst considering the health and safety of people, and the protection of the environment, as essential values.
- To guarantee the identification, assessment and compliance with the legislation and regulations applicable to Quality, Environment and Occupational Health and Safety.
- Similarly, one of the fundamental guidelines set by our Group (STO) is a responsible approach to the limited resources available to us with respect to all business processes, bearing in mind that an efficient and sustainable business is one that tries to bring economy and ecology together within the framework of a long-term strategy.



**Figure 1.** ISO 9001, ISO 14001, ISO 45001 Certifications

Name and location of production site(s):

BEISSIER S.A.U. Txirrita Maleo, 14, E-20100 Errenteria (Gipuzkoa)

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[www.beissier.com](http://www.beissier.com)

## Product information

Product name: AGUAPLAST.

Product description: This EPD covers the life-cycle analysis carried out on a range of BEISSIER products of the AGUAPLAST family:

- AGUAPLAST STANDARD
- AGUAPLAST MONT BLANC
- AGUAPLAST RENOVACIÓN
- AGUAPLAST RENOVATION
- AGUAPLAST FILL&FINISH
- AGUAPLAST UNIVERSAL PRO
- AGUAPLAST RELLENOS
- AGUAPLAST SOLUTIONS STUCCO PER GRANDI SPESSORI POLVERE
- AGUAPLAST SUPER FINE
- AGUAPLAST PRO 2H
- AGUAPLAST PRO 6H
- AGUAPLAST ANTI-CONDENSACIÓN
- AGUAPLAST ANTI-CONDENSA
- AGUAPLAST EXPRESS NACIONAL
- AGUAPLAST EXPRESS EXPORT



*Some AGUAPLAST articles under study.*

The products under study are gypsum based painter fillers for interior application. Most remarkable uses of AGUAPLAST fillers are plastering, filling cracks and holes, smoothing, skim-coating, renovating old painted walls or joint-filling. They can be applied on old & new plasterwork, plasterboard, concrete, cement, wood and even old coats of paints. All AGUAPLAST interior fillers can be quickly overpainted (maximum 24 hours).

### AGUAPLAST STANDARD

Medium coat filler with excellent bonding. Finishing and smoothing thin.

**Characteristics:** Provides a smooth and fine surface, suitable for any type of paint. Excellent bonding, hardness and cohesive properties. Reduces substrate's absorption and saves paint. Easy to mix, prepare and apply, spreads perfectly. Easy to sand. Permeable to water vapour. Fungicidal, prevents mould from appearing.

**Areas of application:** Interior substrates of gypsum, plasterwork, cement, concrete or wood. Plastering of new walls, providing a smooth surface and quality finish for painting. Plastering of walls after removal of wallpaper for redecoration. Filling small cracks and scratches. Filling pores and holes on wood, before painting. Decorative finish when wet by using decorative paint rollers.



*Articles of the AGUAPLAST Standard family.*

### AGUAPLAST MONT BLANC

Medium coat filler with excellent bonding. Finishing and smoothing thin.

**Characteristics:** Provides a smooth and fine surface, suitable for any type of paint and with filling capacity up to 10 mm. Excellent bonding, hardness and cohesive properties. Reduces substrate's absorption and saves paint. Easy to mix, prepare and apply, spreads perfectly. Easy to sand. Permeable to water vapour. Fungicidal, prevents mould from appearing.

**Areas of application:** Interior substrates of gypsum, plasterwork, cement, concrete or wood. Plastering of new walls, providing a smooth surface and quality finish for painting. Plastering of walls after removal of wallpaper for redecoration. Filling small cracks and scratches. Filling pores and holes on wood, before painting. Decorative finish when wet by using decorative paint rollers.



*Articles of the AGUAPLAST Mont Blanc family.*

### AGUAPLAST RENOVACIÓN

Strong adhesion renovation filler.

**Characteristics:** Outstanding bonding. Allows wet on wet recoat. Good filling capacity up to 15 mm. Very fine finish. Perfect spread, good trowelling properties. Easy to sand.

**Areas of application:** Direct renovation on non-absorbent substrates: fiberglass wall coverings, textured surfaces, satin or gloss painted surfaces, old coats of oil-based paint, etc. No need to remove them. Levelling out and finishing of rough surfaces, old plaster, after removing wallpaper, etc.



*Articles of the AGUAPLAST Renovación family.*

### AGUAPLAST RENOVATION

Strong adhesion renovation filler.

**Characteristics:** Outstanding bonding. Allows wet on wet recoat. Good filling capacity up to 15 mm. Very fine finish. Perfect spread, good trowelling properties. Easy to sand.

**Areas of application:** Direct renovation on non-absorbent substrates: fiberglass wall coverings, textured surfaces, satin or gloss painted surfaces, old coats of oil-based paint, etc. No need to remove them. Levelling out and finishing of rough surfaces, old plaster, after removing wallpaper, etc.



*Articles of the AGUAPLAST Renovation family.*

### AGUAPLAST FILL&FINISH

Reparation and finishing interior powder filler.

**Characteristics:** Gypsum based powder filler. Easy and smooth mixing and sanding. Provides a white fine finish.

**Areas of application:** Filling of holes and cracks. Levelling and finishing of absorbent substrates such as plaster, plasterboards, concrete, concrete blocks or bricks, etc.





*AGUAPLAST Fill&Finish article.*

### **AGUAPLAST UNIVERSAL PRO**

The all-round filler.

**Characteristics:** Multi-purpose gypsum filler for interiors. The essential product in the equipment of professional painters. Quick and easy to mix and prepare. Easy to trowel, comfortable to apply, excellent yield. Allows wet on wet recoat. Dries and hardens quickly. Its low degree of absorption guarantees higher coverage and performance of the paint. Easy to sand. No shrinkage or cracking. Excellent bonding, even on satin paints, old fiberglass wall coverings and other non-absorbent substrates. Classification according to EN 13963: Type 4B.

**Areas of application:** Filling of holes and cracks up to 50 mm. Levelling-up, smoothing and finishing of surfaces. Renovation of painted surfaces. Plasterboards: Joint filling and finishing, allowing plasterboard finish to any surface quality level.



*Articles of the AGUAPLAST Universal Pro family.*

### **AGUAPLAST RELLENOS**

Filling & levelling powder filler. Excellent adherence minimum shrinkage. Fine finish.

**Characteristics:** Minimum shrinkage also when filling very deep holes. High adherence, hardness and cohesion. Easy to prepare, does not form slumps. Provides a very fine finish suitable for applying any type of paint. Very easy to sand. Fungicidal, prevents moulds from appearing.

**Areas of application:** Interior absorbent substrates of gypsum, cement, concrete, plasterwork, wood. Filling of deep holes, cracks and scratches. Plastering and smoothing for quick painting. Levelling very irregular substrates. Fixing and anchoring elements in interior substrates. Suitable for repairing, fixing, and sticking plaster forms and polystyrene. Filling joints between plasterboards.



*Articles of the AGUAPLAST Rellenos family.*

### **AGUAPLAST SOLUTIONS STUCCO PER GRANDI SPESSORI POLVERE**

Filling & levelling powder filler. Excellent adherence minimum shrinkage. Fine finish.

**Characteristics:** Minimum shrinkage also when filling very deep holes. High adherence, hardness and cohesion. Easy to prepare, does not form slumps. Provides a very fine finish suitable for applying any type of paint. Very easy to sand. Fungicidal, prevents moulds from appearing.

**Areas of application:** Interior absorbent substrates of gypsum, cement, concrete, plasterwork, wood. Filling of deep holes, cracks and scratches. Plastering and smoothing for quick painting. Levelling very irregular substrates. Fixing and anchoring elements in interior substrates. Suitable for repairing, fixing, and sticking plaster forms and polystyrene. Filling joints between plasterboards.



*Articles of the AGUAPLAST Solutions Stucco Per Grandi Spessori family.*

### **AGUAPLAST SUPER FINE**

Extra fine surface filler.

**Characteristics:** Long working time of 24 hours. Allows mixing large quantities and saving time. Ensures a hard, cohesive, uniformly absorbing final finish. Effortless application. Easy to sand.

**Areas of application:** Ideal for high quality smooth finishes. Final coat for large plastered surfaces. Final preparation (Q4) of drywall and plasterboard. Fully recommended for covering with gloss or satin paints and wallpapers.





Articles of the AGUAPLAST Super Fine family.

### AGUAPLAST PRO 2H / 6H

Lightweight multipurpose filler for smoothing, filling and renovation. Provides thermal insulating properties.

**Characteristics:** Lightweight filler. Great filling capacity. Thick coats can be applied in only one layer. Low drying and curing tension; will not shrink or crack. Wet on wet application is possible. Provides high quality fine finish. Very easy to sand. Excellent adhesion to substrate. Permeable to water vapor. Great thermal insulating capacity. Thermal insulation: Prevents the formation of condensation water (cold wall effect).

**Areas of application:** White color lightweight filler for interior use: smoothing, levelling, filling and renovation of painted walls, improving thermal (cold wall effect) and acoustic insulation properties. Available in two versions; 2 h and 6 h working time for application on absorbent interior substrates (gypsum, plasterboards, cement, concrete, wood or stone) and non-absorbent such as old coats of paint, stippled-finished paints or polystyrene.



AGUAPLAST Pro 2H and 6H articles.

### AGUAPLAST ANTI-CONDENSACIÓN / AGUAPLAST ANTI-CONDENSA

The installation-free way to solve problems of condensation, cold and heat. Light, latest-generation plaster. Permeable to water vapour. Excellent adherence.

**Characteristics:** Its hollow microspheres produce a notable reduction in the thermal conductivity of the wall, providing insulation against heat and cold. The structure of the microspheres damps sound waves. Permeable to water vapour. Low absorption of water. Easy to apply. Effective and low-cost solution that offers an excellent finish. Easy to grind. Can be sprayed. Lightweight, latest generation plaster. It may be applied in any thickness providing a hard surface that does not shrink or crack. Fills irregularities such as cracks or craters. Excellent

adherence on painted walls, plaster, gypsum boards, concrete, wood, brickwork, cement, polystyrene.

**Areas of application:** Prevents and cures insulation problems. Treatment for 'cold walls' where condensation forms and often leads to the spread of mould, destroying the surface. Solutions for problems due to poor ventilation. Protection for persian-blind housings, lintels, edges of structural girders and other areas exposed to pronounced temperature contrasts. Thermal insulation for hot and cold-water pipes.



*Articles of the AGUAPLAST Anti-Condensación/Anti-Condensa family.*

### **AGUAPLAST EXPRESS NACIONAL**

Interior quick dry filler.

**Characteristics:** "Express" drying, can be sanded and covered as early as after 3 hours. Great filling capacity Allows wet on wet recoat. The second layer, if required, can be applied before the first application is completely dry. Very easy and comfortable mixing and sanding.

**Areas of application:** Filling holes and cracks of up to 5 cm. Direct renovation of all type of substrates including non absorbents such as glossy paints, tiles or ceramics. Renovation of humid interior areas like bathrooms and kitchens. Smoothing and levelling out of walls and ceilings.



*Articles of the AGUAPLAST Express Nacional family.*

### **AGUAPLAST EXPRESS EXPORT**

Interior quick dry filler.

**Characteristics:** "Express" drying, can be sanded and covered as early as after 3 hours. Great filling capacity Allows wet on wet recoat. The second layer, if required, can be applied before the first application is completely dry. Very easy and comfortable mixing and sanding.

**Areas of application:** Filling holes and cracks of up to 5 cm. Direct renovation of all type of substrates including non absorbents such as glossy paints, tiles or ceramics. Renovation of humid interior areas like bathrooms and kitchens. Smoothing and levelling out of walls and ceilings.



*Articles of the AGUAPLAST Express Export family.*

The technical characteristics and application of the products families are shown in the following tables:

Characteristics	Product family						
	AG. STANDARD	AG. MONT BLANC	AG. RENOVACIÓN	AG. RENOVATION	AG. FILL&FINISH	AG UNIVERSAL PRO	AG. RELLENOS
Finishing	Fine	Fine	Fine	Fine	Fine	Fine	Fine
Color	White	White	White	White	White	White	White
Powder density (g/cm <sup>3</sup> )	0.8	0.9	0.8	0.9	0.9	0.8	0.8
Granulometry	Fine (< 200 µm)	Fine (< 200 µm)	Fine (< 200 µm)	Fine (< 200 µm)	Fine (< 200 µm)	Fine (< 120 µm)	Fine (< 200 µm)
Classification EN 16566	G <sub>3</sub> S <sub>2</sub> V <sub>0</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>	G <sub>3</sub> S <sub>2</sub> V <sub>0</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>	G <sub>3</sub> S <sub>2</sub> V <sub>0</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>	G <sub>3</sub> S <sub>2</sub> V <sub>0</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>	G <sub>3</sub> S <sub>2</sub> V <sub>0</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>	G <sub>3</sub> S <sub>2</sub> V <sub>0</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>	G <sub>3</sub> S <sub>2</sub> V <sub>0</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>
Classification NFT 36-005	Family III Class 3	Family III Class 3	Family III Class 3	Family III Class 3	Family III Class 3	Family III Class 3	Family III Class 3
Application							
Mixture	40 % (0.40 l water x 1 Kg powder)	50 % (0.50 l water x 1 Kg powder)	50 % (0.50 l water x 1 Kg powder)	50 % (0.50 l water x 1 Kg powder)	50 % (0.50 l water x 1 Kg powder)	45 % (0.45 l water x 1 Kg powder)	50 % (0.5 l water x 1 Kg powder)
Tools	Trowel or spatula	Trowel or spatula	Trowel or spatula	Trowel or spatula	Trowel, spatula or blade	Trowel or spatula	Trowel or spatula
Layer thickness	Max. 5 mm	10 mm	Max. 15 mm	Max. 15 mm	30 mm	50 mm	Unlimited
Working time (useful mixed life)	Approx. 6h to 20 °C	Approx. 4h to 20 °C	Approx. 2h to 20 °C	Approx. 2h to 20 °C	1h	1 h to 20 °C	1h to 20 °C
Consumption	Approx. 1.1 Kg/m <sup>2</sup> and mm of thickness	Approx. 1 Kg/m <sup>2</sup> and mm of thickness	Approx. 1 Kg/m <sup>2</sup> and mm of thickness	Approx. 1 Kg/m <sup>2</sup> and mm of thickness	1 Kg/m <sup>2</sup> and mm of thickness	Approx. 1 Kg/m <sup>2</sup> and mm of thickness	Approx. 1 Kg/m <sup>2</sup> and mm of thickness

Characteristics	Product family						
	AG. SOLUTIONS STUCCO PER GRANDI SPESSORI	AG. SUPER FINE	AG. PRO 2H	AG. PRO 6H	AG. ANTI-CONDENSACIÓN / AG. ANTI-CONDENSA	AG. EXPRESS NACIONAL	AG. EXPRESS EXPORT
Finishing	Fine	Fine	Fine	Fine	Fine	Fine	Fine
Color	White	White	White	White	White	White	White
Powder density (g/cm <sup>3</sup> )	0.8	0.9	0.5	0.5	0.5	0.7	0.8
Granulometry	Fine (< 200 µm)	Fine (< 100 µm)	Fine (< 200 µm)	Fine (< 200 µm)	Fine (< 200 µm)	Fine (< 200 µm)	Fine (< 100 µm)
Classification EN 16566	G <sub>3</sub> S <sub>2</sub> V <sub>0</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>	G <sub>3</sub> S <sub>1</sub> V <sub>0</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>	G <sub>3</sub> S <sub>2</sub> V <sub>1</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>	G <sub>3</sub> S <sub>2</sub> V <sub>1</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>	G <sub>3</sub> S <sub>2</sub> V <sub>1</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>	G <sub>3</sub> S <sub>2</sub> V <sub>0</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>	G <sub>3</sub> S <sub>1</sub> V <sub>0</sub> W <sub>0</sub> A <sub>0</sub> C <sub>0</sub> R <sub>0</sub>
Classification NFT 36-005	Family III Class 3	Family III Class 3	Family III Class 3	Family III Class 3	Family III Class 3	Family III Class 3	Family III Class 3
Application							
Mixture	50 % (0.5 l water x 1 Kg powder)	50 % (0.5 l water x 1 Kg powder)	60 % (0.6 l water x 1 Kg powder)	60 % (0.6 l water x 1 Kg powder)	60 % (0.6 l water x 1 Kg powder)	45 % (0.45 l water x 1 Kg powder)	45 % (0.45 l water x 1 Kg powder)
Tools	Trowel or spatula	Trowel, spatula or blade	Trowel or spatula	Trowel or spatula	Trowel or spatula	Trowel or spatula	Trowel, spatula or blade
Layer thickness	Unlimited	Max. 2 mm	Unlimited	Unlimited	Unlimited	50 mm	50 mm
Working time (useful mixed life)	1h to 20 °C	Aprox. 24 h to 20 °C	2h to 20 °C	6h to 20 °C	6h to 20 °C	45 min.	45 min
Consumption	Approx. 1 Kg/m <sup>2</sup> and mm of thickness	Approx. 1 Kg/m <sup>2</sup> and mm of thickness	Approx. 0.6 Kg/m <sup>2</sup> and mm of thickness	Approx. 0.6 Kg/m <sup>2</sup> and mm of thickness	Approx. 0.6 Kg/m <sup>2</sup> and mm of thickness	1 Kg/m <sup>2</sup> and mm of thickness	1 Kg/m <sup>2</sup> and mm of thickness

UN CPC code: CPC 15200, Gypsum, anhydrite, limestone flux, limestone and other calcaceous stone, of a kind used for the manufacture of lime or cement.

## LCA information

Declared unit: The declared unit is the baseline reference for which all information is collected. In this study, the declared unit is “**1 kg of AGUAPLAST manufactured by BEISSIER.**”.

Reference service life: Not relevant for this EPD.

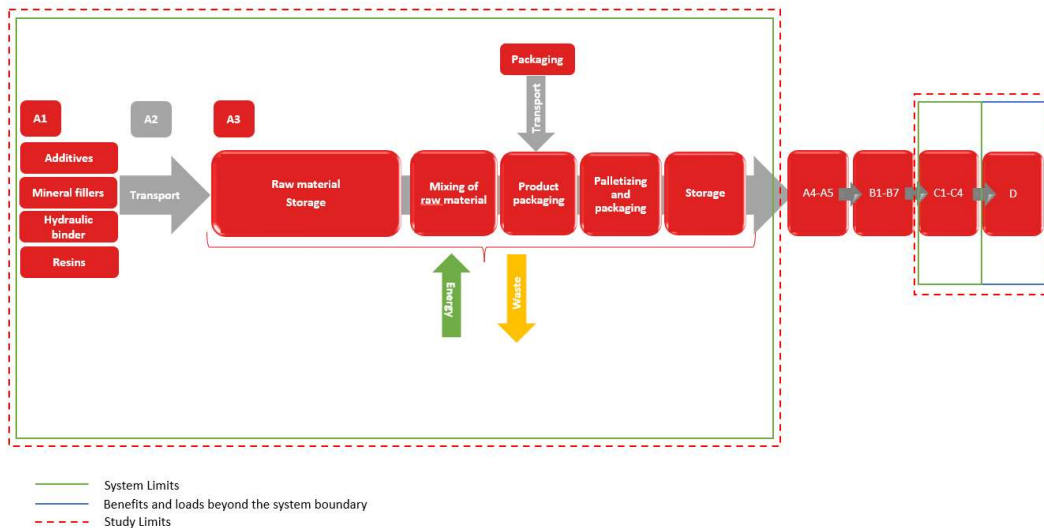
Geographical scope: The geographical scope of this EPD is global.

Time representativeness: The data collection from factory (primary data) and electricity mix are from 2022/04/01 to 2023/03/31. In this study, no datasets older than 10 years were used.

Database(s) and LCA software used: All the data used to model the process and obtain the Life Cycle Inventory are specific data and have been obtained by measurements made during the period from 2022/04/01 to 2023/03/31. They are representative of the different processes implemented during the manufacturing process. The data has been measured directly at the company's own premises. In addition, the most complete and highest quality European life cycle inventory database, Ecoinvent 3.8, has been used, as this database contains the most extensive and updated information and its scope coincides with the geographical, technological and temporal area of the project. The LCA was modelled with Simapro 9.3.0.3.

Description of system boundaries: According to the standard UNE-EN 15804\_2012+A2\_2020 (MARCH 2020) and PCR 2019:14 CONSTRUCTION PRODUCTS (version 1.2.5) the system boundary is cradle to gate with modules C1–C4 and module D (A1–A3 + C + D). The life cycle stages A4-A5, B1-B7 were excluded from the LCA study.

System diagram:



Manufacturing process:

AGUAPLAST manufacturing process is fully controlled and integrated within BEISSIER ERP through SAP Production Management System, which allows an advanced management of the raw materials, as

well as the registration of each production. AGUAPLAST fillers are packed in cartons and sacks originating from controlled sustainable forestry (FSC certified) and in plastic buckets.

#### Author of the Life Cycle Assessment:

IK ingeniería

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48970 Basauri, Bizkaia (Spain)

#### Data quality

The environmental impact of the AGUAPLAST fillers has been calculated. It is based on the international standards established for the development of environmental product declarations, such as ISO 14025 for the preparation of the environmental product declaration, ISO 14040 and ISO 14044 for the preparation of the life cycle analysis, UNE-EN 15804:2012+A2:2020 (MARCH 2020) and the Product Category Rules PCR - "2019:14 Construction products " (Version 1.2.5).

Data has been collected from 2022/04/01 to 2023/03/31 and is representative of that year. Data for raw material supply, transport to fabrication plant and production (A1-A3) is based on specific consumption data for the factory at Errenteria. Generic background datasets were used for the downstream processes. SimaPro v9.3.0.3. software was used to prepare the life cycle analysis together with the Ecoinvent 3.8 database. Characterization factors from EN15804: 2012 + A2:2019. The geographical coverage is global. Technological coverage is typical or average.

#### Assumptions

The modularity principle, as well as the polluter-payer principle have been followed. The following assumptions have been made in this EPD:

- ✓ It does not include the manufacturing processes of the capital goods or spare parts and/or maintenance with a life of more than three years.
- ✓ The environmental impact of infrastructure for general management, office, and headquarters operations is not included.
- ✓ The impact caused by people (common activities, travel for work...) will not be considered.
- ✓ It does not include the consumption of natural gas for sanitary hot water from showers and heating system for the comfort of people.
- ✓ The processes associated with fuel production are intrinsically included in the indicators in ECOINVENT's database used in carrying out the LCA.
- ✓ The environmental impact of external transport has been calculated using lorries from the ECOINVENT 3.8 database, EURO 6. These lorries have been selected to reflect the most realistic scenario possible.

#### Cut-off rules

The standard ISO 14025 and the PCR "2019:14 CONSTRUCTION PRODUCTS" indicate that the life cycle inventory data should include a minimum of 95% of the total inputs (materials and energy) for each stage. This cut-off rule does not apply for hazardous materials and substances. No such cut-off criteria have been taken into account in this study.

#### Allocation

Where necessary, such as waste generation and energy consumption, an allocation based in mass has been used.

#### Greenhouse gas emission from the use of electricity in the manufacturing phase



Two specific electricity mixes, high voltage (direct emissions and losses in grid) electricity are considered for the manufacturing process, given that in the period analyzed there has been a change of electricity supplier.

Electricity mix	Amount	Units
Specific electricity mix (supplier 1)	5,10E-01	Kg CO2-eqv/kWh
Specific electricity mix (supplier 2)	3,98E-02	Kg CO2-eqv/kWh

**LCA Scenarios and additional technical information**

Dismantling/demolition (module C1):

Since they are not products with a structural use, the energy consumption of this phase is considered not relevant.

Transport (module C2):

With a collection rate of 100%, the transports are carried out by lorry (EURO 6) over 50 km.

Waste processing (modules C3 and C4):

A recycling ratio of 89 % is considered in accordance with the recovery rate of construction and demolition waste statistics published by Eurostat in reference to the year 2018 and the sorting impact is considered. The remaining 11% is considered to be landfilled. These percentages are representative of the areas where the product is marketed.

Recyclability potentials (module D):

Module D contains credits from the recycling of the render in module C3. The render is collected and recycled for use in substitution of virgin raw aggregates. The loads of recycling process and the benefits of substitution of virgin raw aggregates have been considered.

**LCA Scenarios for end of life**

Processes	Per Declared unit	
Collection process specified by type	1,00E+00	Kg collected separately
	0,00E+00	Kg collected with mixed construction waste
Recovery system specified by type	0,00E+00	Kg for reuse
	8,90E-01	Kg for recycling
	0,00E+00	Kg for energy recovery
Disposal specified by type	1,10E-01	Kg for final disposal
Assumptions for scenario transportation	Lorry 16-32 metric ton, EURO6 Consumption: 0,04 kg/km Distance:50 km	

Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation:

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	ND	ND	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	EU	EU	EU	ND	ND	ND	ND	ND	ND	ND	ND	ND	GLO	GLO	GLO	GLO	GLO
Specific data	>90%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	-91,31%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

**ND: Not declared**

## Content information

For each indicator, the highest result of the included products (i.e., the results of a “worst-case product”, which may be the results of one or several of the included products) is declared. The highest result of the included products involves the combination of the 3 following products: AGUAPLAST ANTI-CONDENSACIÓN box 500G, AGUAPLAST EXPRESS EXPORT box 1KG, AGUAPLAST EXPRESS EXPORT bucket 6KG. Taking account this, the content of these products is collected in the following table.

Product components	AG ANTI-CONDENSACIÓN box 500G			AG EXPRESS EXPORT box 1KG			AG EXPRESS EXPORT bucket 6KG		
	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%
Additives	< 0,05	0,0%	0,0%	< 0,05	0,0%	0,0%	< 0,05	0,0%	0,0%
Mineral fillers	>0,30	0,0%	0,0%	>0,60	0,0%	0,0%	>0,60	0,0%	0,0%
Hydraulic binder	< 0,60	0,0%	0,0%	< 0,30	0,0%	0,0%	< 0,30	0,0%	0,0%
Resins	< 0,05	0,0%	0,0%	< 0,05	0,0%	0,0%	< 0,05	0,0%	0,0%
TOTAL	1,00	0,0%	0,0%	1,00	0,0%	0,0%	1,00	0,0%	0,0%
Packaging materials	Weight, kg	Weight-% (versus the product)	Weight, kg	Weight-% (versus the product)	Weight, kg	Weight-% (versus the product)			
Cardboard	0,17	16,71%	0,08	8,36%	0,00	0,00%			
Plastic	0,14	14,14%	0,01	0,79%	0,09	8,80%			
Paper	0,00	0,00%	0,00	0,00%	0,00	0,07%			
Pallet	0,05	5,40%	0,03	2,86%	0,05	4,62%			
TOTAL	0,36	36,26%	0,12	12,00%	0,13	13,48%			

**Packaging:** The Aguaplast fillers can be packaged in different forms. For the boxes, the material used is cardboard, for the bags paper, and for the buckets plastic. The product is transported to the construction site packed with plastic film and in pallets.

No substances included in the Candidate List of Substances of Very High Concern for authorization under REACH Regulations are present in the analyzed AGUAPLAST fillers manufactured by BEISSIER S.A.U, either above the threshold for registration with the European Chemicals Agency or above 0,1% (wt/wt).

## Environmental Information

For each indicator, the highest result of the included products (i.e., the results of a “worst-case product”, which may be the results of one or several of the included products) is declared. The highest result of the included products involves the combination of the 3 following products: AGUAPLAST ANTI-CONDENSACIÓN box 500G, AGUAPLAST EXPRESS EXPORT box 1KG, AGUAPLAST EXPRESS EXPORT bucket 6KG.

### Potential environmental impact – mandatory indicators according to EN 15804:

Results per declared unit							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-fossil	kg CO <sub>2</sub> eq.	1,27E+00	0,00E+00	8,14E-03	1,51E-03	5,79E-04	-2,71E-03
GWP-biogenic	kg CO <sub>2</sub> eq.	2,16E-03	0,00E+00	3,30E-06	6,77E-07	3,78E-07	-2,06E-05
GWP-luluc	kg CO <sub>2</sub> eq.	9,17E-04	0,00E+00	3,26E-06	5,67E-07	5,47E-07	-1,69E-06
GWP-total	kg CO <sub>2</sub> eq.	1,27E+00	0,00E+00	8,15E-03	1,51E-03	5,80E-04	-2,73E-03
ODP	kg CFC 11 eq.	2,11E-07	0,00E+00	1,89E-09	3,43E-10	2,34E-10	-3,84E-10
AP	mol H <sup>+</sup> eq.	6,59E-03	0,00E+00	2,31E-05	9,80E-06	5,45E-06	-2,47E-05
EP-freshwater	kg PO <sub>4</sub> <sup>3-</sup> eq.	1,13E-04	0,00E+00	1,78E-07	3,62E-08	1,86E-08	-1,55E-07
EP-freshwater	kg P eq.	3,69E-05	0,00E+00	5,81E-08	1,18E-08	6,07E-09	-5,05E-08
EP-marine	kg N eq.	1,32E-03	0,00E+00	4,59E-06	3,70E-06	1,88E-06	-7,20E-06
EP-terrestrial	mol N eq.	1,25E-02	0,00E+00	5,12E-05	4,07E-05	2,07E-05	-9,92E-05
POCP	kg NMVOC eq.	3,92E-03	0,00E+00	1,97E-05	1,16E-05	6,03E-06	-2,25E-05
ADP-minerals&metals*	kg Sb eq.	9,70E-06	0,00E+00	2,89E-08	5,39E-09	1,32E-09	-4,30E-08
ADP-fossil*	MJ	2,19E+01	0,00E+00	1,23E-01	2,28E-02	1,62E-02	-4,27E-02
WDP	m <sup>3</sup> deprive	1,52E-02	0,00E+00	1,40E-05	4,22E-06	1,73E-05	-3,12E-04
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption						

\* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

### Potential environmental impact – additional mandatory and voluntary indicators

Results per declared unit						
Indicator	A1-A3	C1	C2	C3	C4	D
GWP-GHG <sup>1</sup>	1,27E+00	0,00E+00	8,15E-03	1,51E-03	5,80E-04	-2,73E-03

### Use of resources

Results per declared unit							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	0,00E+00	0,00E+00	1,76E-03	7,42E-04	1,38E-04	-1,45E-02
PERM	MJ	3,51E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	3,51E+00	0,00E+00	1,76E-03	7,42E-04	1,38E-04	-1,45E-02
PENRE	MJ	8,07E+00	0,00E+00	1,23E-01	2,28E-02	1,62E-02	-4,27E-02
PENRM	MJ	1,38E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	2,19E+01	0,00E+00	1,23E-01	2,28E-02	1,62E-02	-4,27E-02
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m <sup>3</sup>	1,52E-02	0,00E+00	1,40E-05	4,22E-06	1,73E-05	-3,12E-04

## Waste production

Results per functional or declared unit							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
Hazardous waste disposed	kg	2,20E-05	0,00E+00	3,22E-07	5,95E-08	2,45E-08	-1,82E-07
Non-hazardous waste disposed	kg	4,46E-01	0,00E+00	6,47E-03	1,26E-03	1,10E-01	-6,40E-04
Radioactive waste disposed	kg	5,63E-05	0,00E+00	8,34E-07	1,54E-07	1,06E-07	-3,28E-07

## Output flows

Results per functional or declared unit							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Material for recycling	kg	4,50E-06	0,00E+00	0,00E+00	8,90E-01	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, thermal	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

## Information on biogenic carbon content

Results per declared unit		
BIOGENIC CARBON CONTENT	Unit	QUANTITY
Biogenic carbon content in product	kg C	0,00E+00
Biogenic carbon content in packaging	kg C	0,00E+00

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO<sub>2</sub>.

## Additional information

The technical datasheet and the safety datasheet can be found in the following webpage:

<https://www.beissier.es/es/descargas/fichas-tecnicas/fichas-tecnicas.html>

<https://www.beissier.es/es/descargas/fichas-de-seguridad/fichas-de-seguridad.html>

## Information related to Sector EPD

This is an individual EPD®

## Differences versus previous versions

This is the last version of the EPD®. STOLEVELL IN MUR and STOLEVELL IN FILL products from the previous version of the EPD® have been removed. AGUAPLAST RENOVATION, FILL&FINISH, RELLENOS, SOLUTIONS STUCCO PER GRANDI SPESSORI POLVERE, PRO 2H, PRO 6H, ANTI-CONDENSACIÓN, ANTI-CONDENSA, EXPRESS NACIONAL and EXPRESS EXPORT products have been added for the last version of the EPD®.

All the data has been updated and is referenced from 2022/04/01 to 2023/03/31. The norm and the PCR have been updated to standard UNE-EN 15804\_2012+A2\_2020 (MARCH 2020) and PCR 2019:14 CONSTRUCTION PRODUCTS (version 1.2.5) respectively.



## References

- General Programme Instruction of the International EPD®System. Version 4.0.
- ISO 14020:2000 Environmental labels and declarations-General principles.
- ISO 14025:2010 Environmental labels and declarations-Type III Environmental Declarations-Principles and procedures.
- ISO 14040:2006 Environmental Management-Life Cycle Assessment-Principles and framework.
- ISO 14044:2006 Environmental Management-Life Cycle Assessment-Requirements and guidelines.
- PCR 2019:14 Construction products (EN 15804: A2) version 1.2.5
- EN 15804:2012+A2:2019 Sustainability of construction works-Environmental Product Declarations-Core rules for the product category of construction products

## VERIFICATION STATEMENT CERTIFICATE CERTIFICADO DE DECLARACIÓN DE VERIFICACIÓN

*Certificate No. / Certificado nº: EPD03101*

TECNALIA R&I CERTIFICACION S.L., confirms that independent third-party verification has been conducted of the Environmental Product Declaration (EPD) on behalf of:

*TECNALIA R&I CERTIFICACION S.L., confirma que se ha realizado verificación de tercera parte independiente de la Declaración Ambiental de Producto (DAP) en nombre de:*

**BEISSIER S.A.U.**

**Polígono Industrial Txirrita Maleo, 14  
E-20100 ERRETERIA (Guipúzcoa) SPAIN**

for the following product(s):  
*para el siguiente(s) producto(s):*

**AGUAPLAST FILLERS / SPACHTELMASSE**  
***Plastes AGUAPLAST***

with registration number **S-P-01386** in the International EPD<sup>®</sup> System ([www.environdec.com](http://www.environdec.com))  
*con número de registro S-P-01386 en el Sistema Internacional EPD<sup>®</sup> ([www.environdec.com](http://www.environdec.com))*

it's in conformity with:  
*es conforme con:*

- **ISO 14025:2010 Environmental labels and declarations. Type III environmental declarations.**
- **General Programme Instructions for the International EPD<sup>®</sup> System (v.4.0).**
- **PCR 2019:14 Construction products (EN 15804:A2) Version 1.2.5.**
- **UN CPC 15200, Gypsum, anhydrite, limestone flux, limestone and other calcareous stone, of a kind used for the manufacture of lime or cement.**

Issued date / <i>Fecha de emisión:</i>	07/09/2018
Update date / <i>Fecha de actualización:</i>	05/09/2023
Valid until / <i>Válido hasta:</i>	04/09/2028
Serial N <sup>o</sup> / <i>N<sup>o</sup> Serie:</i>	EPD0310101-E



Carlos Nazabal Alsua  
Manager



*This certificate is not valid without its related EPD.  
Este certificado no es válido sin su correspondiente EPD.*

*El presente certificado está sujeto a modificaciones, suspensiones temporales y retiradas por TECNALIA R&I CERTIFICACION.  
This certificate is subject to modifications, temporary suspensions and withdrawals by TECNALIA R&I CERTIFICACION.*

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The validity of this certificate can be checked through consultation in [www.tecnaliacertificacion.com](http://www.tecnaliacertificacion.com).*

