

CEMENT

Product Catalogue

CEMENT **VAL**

CEMENTVAL MATERIALES DE CONSTRUCCIÓN, S.L.

CEMENTVAL's cement Business Line has a state-of-the-art grinding plant for the manufacture of cement in the Port of Sagunto (Valencia), with a capacity of up to 1,000,000 Tm/year.

By means of the grinding process and with a strict selection of the raw materials, the product meets certain characteristics regarding its composition and granulometry, thus creating the best conditions for the hardening processes when used as a hydraulic binder. The use of high-performance equipment allows the production of various types of cement with the highest quality and performance requirements.

The plant has modern facilities for the dispatch of bulk and bagged cement. Its facilities also include a quality control laboratory and a production process laboratory, equipped with the most modern technology.

All the materials involved in the process, from raw materials to finished products, are analysed and controlled to ensure that they comply with the most rigorous quality standards, including resistance, durability and workability.

With the experience, knowledge and innovation necessary to manufacture and supply the best cement, we offer our customers the confidence they require, not only because of the quality of the product but also because of the technical advice offered by our professionals to meet the demands of both civil and residential construction.

Good construction uses the best materials, and at CEMENTVAL we manufacture the most reliable and safe cement.

CORPORATE GROUP

CEMENTVAL MATERIALES DE CONSTRUCCIÓN, S.L. is a subsidiary of CORPORACIÓN F. TURIA, S.A., parent company of a Spanish family owned business group with more than 80 years of history.

CORPORACIÓN F. TURIA, S.A. was founded in 1.940, and since its origins it has been dedicated to the manufacture and commercialization of cement, proceeding a few decades later to a vertical integration with the incorporation of the concrete and aggregates Business Lines.

Its historical vocation for the manufacture and marketing of construction materials has been maintained to the present day, and it was at the end of the 1990s when it was decided to begin a new phase of expansion and internationalisation, as well as diversification into new strategic and high value-added sectors.

The Group CORPORACIÓN F. TURIA, S.A. has focused on fulfilling what it considers to be the three fundamental pillars that will support the present and future of the Group of companies, such as expansion, diversification and internationalisation, which has meant the implementation of a balanced business model that has been able to successfully combine the old and new areas of activity that make up the Group of companies, is currently present through its subsidiaries and investee companies in various sectors of activity, with proven experience and specialisation in each of them, and also has several consolidated Business Lines, with high quality, high-performance products manufactured in-house.

The main Areas of Activity and the different Lines of Business that make them up, and which are currently carried out through the subsidiaries and investee companies of CORPORACIÓN F. TURIA, S.A., are CONSTRUCTION MATERIALS (cement, concrete, mortar, aggregates), CHEMISTRY (Construction, Agriculture), ENVIRONMENT (Waste Treatment and Recovery, Ecoparks) and BIOTECHNOLOGY (Recombinant Gonadotropins, Antibodies, Development of in vitro biological tests, Induction of reproductive cycles).

PAST

The history of CEMENTVAL MATERIALES DE CONSTRUCCIÓN, S.L. begins in November 1940 with a first cement factory located in Burjasot (Valencia), starting the cement activity through the Company CEMENTOS TURIA, S.A.

In 1955 a completely new factory was built on the same grounds and the first vertical furnace was commissioned.

Between 1959 and 1964, 3 more furnaces were installed, reaching a production capacity of 450,000 tons per year.

At the beginning of the seventies, two new cement factories were acquired, in Benagéber (Valencia) with a capacity of 100,000 mt/year and in Contreras (Cuenca) with a capacity of 150,000 mt/year. In 1974, through the subsidiary HISPANO SUIZA DE CEMENTOS, S.A., a new cement factory was built in Meco (Madrid) with a production capacity of 500,000 mt/year. The factory was in operation for a few years until it was sold at the end of the seventies.

In the seventies it also began to sell concrete through its subsidiary HORMIGONES LEVANTE, S.A. (HORLESA), known for its characteristic concrete mixer trucks with the tanks painted in blue and yellow stripes. A few years later, the manufacture of mortars was incorporated, under the brand name MORMIX.

In 1993 CEMENTOS TURIA, S.A. sold its cement assets to ASLAND, S.A. (Lafarge Group), changing its name to CORPORACIÓN F. TURIA, S.A., the current parent company of the Group of companies. An expansion in the concrete and mortar Business Lines was then started, which led us to cover the Valencian Community from north to south, Albacete capital and three plants in Madrid, reaching a total of 19 operating plants.

In May 2005 the current cement grinding plant was opened in the Port of Sagunto (Valencia) from where cement is distributed to the Group's concrete plants and to all our customers. In 2012 the cement, concrete and mortar Business Lines were unified in the same Company under the name of CEMENTVAL MATERIALES DE CONSTRUCCIÓN, S.L.



Range of cements

The types of cement currently manufactured and marketed by CEMENTVAL are as follows

EMF I 52.5 R
II/A-P42.5 R/SRC
CEM II/A-L 42.5 R
CEM II/B-L 32.5 R
CEM II/B-L 32.5 N

Other types of cement can also be manufactured. The Technical and Commercial Assistance departments will be happy to answer any questions you may have about the use and/or application of our cements.

There are 2 sales methods, bulk and bagging.

We also sell :

- Dry concrete.
- Dry mortar.



EMF I 52.5 R

PRODUCT DATA SHEET

- Portland cement **EN 197-1** with high initial resistance.
- Statement of Benefits No. **0370-CPR-0855**.
- Product Brand Certificate no. **PR-1165/009**, granted by **APPLUS**.
- Cement shipped in bulk.

APPLICATIONS

As a general rule, this cement is indicated for

- Mass concrete, reinforced, prestressed and projected.
- Highly resistant concrete.
- Concrete in prefabricated and pre-stressed structural elements.
- Concrete for stripping, stripping and rapid demoulding.
- Concrete for pre-stressed structural elements. The environments

(exposure classes) for the use of this cement are I, II and IV.

Further information on the applications and uses of this cement can be found in the current structural concrete and cement reception instructions and in the **UNE 80300:2000 IN** standard.

STORAGE

The cement must be stored in conditions that isolate it from humidity and avoid contamination with other cements of any type, even those of the same resistant category.

The recommended storage period is 1 month. After longer storage, and before use, it is recommended to check that the characteristics are still suitable for use (setting and resistance).



EMF I 52.5 R FEATURES

Components	Mass ratio (%) ⁽¹⁾
Clinker	95-100
Minority components ⁽²⁾	0-5

1. The values refer to the sum of the main components (clinker and additions) and minority components
2. Natural mineral materials, mineral materials derived from clinker manufacture or other main components not included in its composition.

PHYSICAL AND MECHANICAL REQUIREMENTS

The physical and mechanical requirements specified by **EN 197-1** are

Compressive strength (MPa)		Beginning of setting time (min.)	Stability (expansion) (mm)
Initial (2 days)	Normal (28 days)		
≥ 30,0	≥ 52,5	≥ 45	≤ 10

CHEMICAL REQUIREMENTS

With regard to the chemical characteristics that this cement must have, the following are specified in the **EN 197-1** standard:

Property	Requirement ⁽¹⁾
Loss on ignition	≤5.0 %
Insoluble residue	≤5.0%
Sulphate (SO3)	≤ 4.0%
Chlorides (Cl-)	≤ 0,10%

1.In percentage by mass of the final cement.



0370-CPR-0855

II/A-P 42.5 R/SRC

PRODUCT DATA SHEET

- Portland cement **EN 197-1** with high initial resistance.
- Cement with additional characteristic resistant to sulphates **UNE 80303-1**.
- Statement of Benefits No. **0370-CPR-1386**.
- Product Brand Certificate, no. **PR-1821/009**, granted by **APPLUS**.
- Cement shipped in bulk and in bags.

APPLICATIONS

- As a general rule, this cement is indicated for
- Mass concrete, reinforced and projected.
 - Concrete subjected to the action of water or soil sulphates (foundations) or to the action of seawater (sea atmosphere, total immersion or tidal run zone).
 - Works in contact with acidic water, pure water with high solvent power or aggressive carbon dioxide.
 - Deconstructed formwork and quick release of moulds.
 - Concrete pavements for road surfaces. Pavement floors.

This cement **cannot be used** in prestressed concrete as indicated in the structural concrete instruction in its current edition.

The environments (exposure classes) for the use of this cement are I, II, III, IV, Qa, Qb, Qc.

Further information on the applications and uses of this cement can be found in the current structural concrete and cement reception instructions and in the **UNE 80300:2000 IN** standard.

STORAGE

The cement must be stored in conditions that isolate it from humidity and avoid contamination with other cements of any type, even of the same resistant category. The recommended storage period is 2 months.

After longer storage, and before use, it is recommended to check that the characteristics are still suitable for use (setting and resistance).



II/A-P 42.5 R/SRC FEATURES

COMPOSITION

Standard **EN 197-1** indicates that the main and minority components of this cement, as well as their mass proportions, will be as follows:

Components	Mass ratio (%) ⁽¹⁾
Clinker	80-94
Natural Pozzolana	6-20
Minority components ⁽²⁾	0-5

1. The values refer to the sum of the main components (clinker and additions) and minority components
2. Natural mineral materials, mineral materials derived from clinker manufacture or other main components not included in its composition.

PHYSICAL AND MECHANICAL REQUIREMENTS

The physical and mechanical requirements specified by **EN 197-1** are

Compressive strength (MPa)			Beginning of setting time (min.)	Stability (expansion) (mm)
Initial(2 days)	Normal (28 days)			
≥ 20,0	≥ 42,5	≤ 62,5	≥ 60	≤ 10

CHEMICAL REQUIREMENTS

With regard to the chemical characteristics that this cement must have, the following are specified in the **EN 197-1** standard:

Property	Requireme nt ⁽¹⁾
Sulphate (SO ₃)	≤ 4%
Chlorides (Cl-)	≤ 0,10%
Tricalcium Aluminium (C3A)	≤ 6
Tricalcium Aluminium + Ferrite Tetracalcium Aluminium (C3A+C4AF)	≤ 22.0

1. As a percentage by mass of the final cement.



0370-CPR-2772

EMC II/B-L 32.5 R

PRODUCT DATA SHEET

- Portland cement with high initial resistance limestone **EN 197-1**.
- Cement shipped in bulk and in bags.
- Declaration of Benefits No. **0370-CPR-1019**, granted by **APPLUS**.
- Product Brand Certificate no. **PR-1234/009**, granted by **APPLUS**.

APPLICATIONS

- As a general rule, this cement is indicated for
- Mass and reinforced concrete (even in large volumes).
 - Compacted concrete with rollers.
 - Concrete pavements for road surfaces.
 - Shotcrete and pumped concrete

This cement **cannot be used** in prestressed concrete as indicated in the structural concrete instruction in its current edition.

The environments (exposure classes) for the use of this cement are I and II.

Further information on the applications and uses of this cement can be found in the current structural concrete and cement reception instructions and in the **UNE 80300:2000 IN** standard.

STORAGE

The cement must be stored in conditions that isolate it from humidity and avoid its contamination with other cements of different types and/or resistance classes.

In the case of bagged cement, it should be stored in a ventilated place and protected from the weather and moisture from the floor and walls.

The recommended storage period is 3 months. After longer storage, and before use, it is recommended to check that the characteristics are still suitable for use (setting and resistance).



EMC II/B-L 32.5 R FEATURES

COMPOSITION

Standard **EN 197-1** indicates that the main and minority components of this cement, as well as their mass proportions, will be as follows:

Components	Mass ratio (%) ⁽¹⁾
Clinker	65-79
Limestone	21-35
Minority components ⁽²⁾	0-5

1. The values refer to the sum of the main components (clinker and additions) and minority components
2. Natural mineral materials, mineral materials derived from clinker manufacture or other main components not included in its composition.

PHYSICAL AND MECHANICAL REQUIREMENTS

The physical and mechanical requirements specified by **EN 197-1** are

Compressive strength (MPa)			Beginning of setting time (min.)	Stability (expansion) (mm)
Initial (2 days)	Normal (28 days)			
≥ 10,0	≥ 32,5	≤ 52,5	≥ 75	≤ 10

CHEMICAL REQUIREMENTS

With regard to the chemical characteristics that this cement must have, the following are specified in the **EN 197-1** standard:

Property	Requirement ⁽¹⁾
Loss on ignition	No limitation
Insoluble residue	No limitation
Sulphate (SO ₃)	≤ 3,5%
Chlorides (Cl-)	≤ 0,10%

1. As a percentage by mass of the final cement.



0370-CPR-1019

CEM II/A-L 42.5 R

PRODUCT DATA SHEET

- Portland cement with high initial resistance limestone **UNE-EN 197-1**.
- Cement shipped in bulk and in bags.
- **EC** Certificate of Conformity no. **0370-CPR-2149**, granted by **APPLUS**.
- Product Brand Certificate No. **PR-1731/009**, granted by **APPLUS**.

APPLICATIONS

- As a general rule, this cement is indicated for
- Mass concrete, reinforced and projected.
 - Concrete in prefabricated, non-pre-stressed structural elements.
 - Concrete for stripping, stripping and quick release.

This cement **cannot be used** in prestressed concrete as indicated in the structural concrete instruction in its current edition.

Further information on the applications and uses of this cement can be found in the current structural concrete and cement reception instructions and in the **UNE 80300:2000 IN** standard.

STORAGE

The cement must be stored in conditions that isolate it from humidity and avoid its contamination with other cements of different types and/or resistance classes.

The recommended storage period is 2 months. After longer storage, and before use, it is recommended to check that the characteristics are still suitable for use (setting and resistance).



CEM II/A-L 42.5 R FEATURES

COMPOSITION

Standard **UNE-EN 197-1** indicates that the main and minority components of this cement, as well as their mass proportions, will be as follows:

Components	Mass ratio (%) ⁽¹⁾
Clinker	80-94
Limestone	6-20
Minority components ⁽²⁾	0-5

1. The values refer to the sum of the main components (clinker and additions) and minority components
2. Natural mineral materials, mineral materials derived from clinker manufacture or other main components not included in its composition.

PHYSICAL AND MECHANICAL REQUIREMENTS

The physical and mechanical requirements specified by the **UNE-EN 197-1** standard are

Compressive strength (MPa)			Beginning of setting time (min.)	Stability (expansion) (mm)
Initial (2 days)	Normal (28 days)			
≥ 20,0	≥ 42,5	≤ 62,5	≥ 60	≤ 10

CHEMICAL REQUIREMENTS

With regard to the chemical characteristics that this cement must have, the following are specified in the **UNE-EN 197-1** standard:

Property	Requirement ⁽¹⁾
Loss on ignition	No limitation
Insoluble residue	No limitation
Sulphate (SO ₃)	≤ 4.0%
Chlorides (Cl-)	≤ 0,10%

1. As a percentage by mass of the final cement.



EMC II/B-L 32.5 N

PRODUCT DATA SHEET

- Portland cement with **EN 197-1** limestone of normal initial resistance.
- Cement shipped in bulk
- Declaration of Benefits No. **0370-CPR-3992**, granted by **APPLUS**
- Product Brand Certificate No. **PR-1916/009**, granted by **APPLUS**

APPLICATIONS

As a general rule, this cement is indicated for

- Highly usable for soil-cement, gravel-cement, compacted concrete and soil stabilisation
- General masonry work.
- Mass and reinforced concrete (even in large volumes).
- Compacted concrete with rollers.
- Concrete pavements for road surfaces.
- Shotcrete and pumped concrete

This cement cannot be used in prestressed concrete as indicated in the structural concrete instruction in its current edition.

The environments (exposure classes) for the use of this cement are I and II.

Further information on the applications and uses of this cement can be found in the current structural concrete and cement reception instructions and in the **UNE 80300:2000 IN**.

STORAGE

The cement must be stored in conditions that isolate it from humidity and avoid its contamination with other cements of different types and/or resistance classes.

In the case of bagged cement, it should be stored in a ventilated place and protected from the weather and moisture from the floor and walls.

The recommended storage period is 3 months. After longer storage, and before use, it is recommended to check that the characteristics are still suitable for use (setting and resistance).



EMC II/B-L 32.5 N FEATURES

COMPOSITION

Standard **EN 197-1** indicates that the main and minority components of this cement, as well as their mass proportions, will be as follows:

Components	Mass ratio (%) ⁽¹⁾
Clinker	65-79
Limestone	21-35
Minority components ⁽²⁾	0-5

1. The values refer to the sum of the main components (clinker and additions) and minority components
2. Natural mineral materials, mineral materials derived from clinker manufacture or other main components not included in its composition.

PHYSICAL AND MECHANICAL REQUIREMENTS

The physical and mechanical requirements specified by **EN 197-1** are

Compressive strength (MPa)			Beginning of setting time (min.)	Stability (expansion) (mm)
Initial (7 days)	Normal (28 days)			
≥ 16,0	≥ 32,5	≤ 52,5	≥ 75	≤ 10

CHEMICAL REQUIREMENTS

With regard to the chemical characteristics that this cement must have, the following are specified in the **EN 197-1** standard:

Property	Requirement ⁽¹⁾
Loss on ignition	No limitation
Insoluble residue	No limitation
Sulphate (SO ₃)	≤ 3,5%
Chlorides (Cl-)	≤ 0,10%

1. In percentage by mass of the final cement.



Dry Grey Concrete HS-25

CEMENTVAL, within its range of products for the construction industry, offers dry concrete in 25 kg bags, with the confidence and guarantee of a product backed by experience.

Homogeneous, workable, safe.

Dry concrete is formulated with hydraulic binders (cement), aggregates (gravel, sand,...) and additives (superfluidifiers, plasticizers,...) that provide the product with great docility, plasticity, fluidity, workability and homogeneity.

Field of application

For paving, foundations, fillings, ducts, small repairs, wall factories, concrete partitions, repair work, restoration work and as a complement to the supply by truck mixer.

Application system

For non-structural use, it is suitable for all types of masonry work in general, small restoration repairs, closures, paving, screeds, fillings, roofs, pavement bases, kerbs, installation of manholes, lamp bases, etc.

For structural use: use in small structures in general to repair foundations, walls, etc., when mechanical resistance to compression is required (≥ 25 N/mm² at 28 days). For structural use, it is necessary to carry out the appropriate preliminary tests by the customer to verify the suitability of the product in accordance with current concrete regulations.

Technical specifications

The main technical characteristics are as follows:

- Designation: HM/HA-25/B/8/IIa (reinforced and mass concrete works with normal building site environment).
- Compressive strength at 28 days: ≥ 25 N/mm²
- Consistency (Abrams cone): 6-9 (± 1) cm
- Recommended water: 10 % on the weight of the product (approx. 2.5 litres of water per 25 kg bag)
- Type of cement: 42,5
- Minimum cement dosage ≥ 300 kg/m³
- Maximum water/cement ratio: 0.6
- Additives: plasticizer
- Density: 2380 ± 50 kg/m³
- Limit of use: 90 minutes from the addition of water
- Maximum aggregate size: 8 mm

+ information: contact the sales department +

Dry Mortar M-7.5

CEMENTVAL offers M-7.5 dry mortar in 25 kg sacks as part of its range of products for the construction industry, with the confidence and guarantee of a product backed by experience, and above all with the safety of a product adapted to the needs of the construction site.

Homogeneous, easy to use, practical and reduced storage space

The dry mortar manufactured in the plant according to the UNE EN 998-2 standard is a homogeneous compound formed by inorganic binders (cement, lime), aggregates and additives that improve the qualities of the product (plasticisers, water-repellents, airing agents,...). To use it, it is only necessary to mix it with water, obtaining a fresh and homogeneous paste . The sacks are palletised and supplied on pallets, protected with a shrinkable plastic. This allows the material to be stored on site, protected from external agents and the weather.

Field of application

-Dry mortar for masonry has a wide range of applications: walls, exposed brickwork, rendering, tile laying, flooring,...

-Dry mortar has a wide range of uses: ducts, paving, fillings, small repairs, interior and exterior plastering, tile laying, brickwork, exposed brickwork and concrete block. flooring, paving, levelling and fillings.

It's all advantages:

- Product homogeneity.
- Dosage of the amount of product needed at each moment.
- Storage of material in a reduced and properly protected space.
- Manageable.
- Reduction of material losses.

Technical specifications

The main technical characteristics are as follows:

- Typical use: G (General)
- Compressive strength: category M 7.5 N/mm²
- Bonding strength (adhesion): 0.15 N/mm²
- Chloride content: < 0.1% (only for mortars with reinforcement)
- Reaction to fire: class A1
- Water absorption: class W0
- Water vapour permeability: 15/35 μ
- Thermal conductivity: 0.83 W/m-K
- Apparent density in powder form: 1550 ± 50 kg/m³
- Apparent density of fresh pasta: 1800 ± 50 kg/m³
- Kneading water: (13 \pm 2)% on the weight of the product (between 2.8 L - 3.8 L water per bag of mortar)

information: contact the sales department

Quality

All common cements manufactured by CEMENTVAL (under the **UNE-EN 197-1** standard) have the EC performance certificate, in accordance with the Construction Products Regulation (CPR). This allows the free circulation of these cements within the European Union. And for those cements with additional characteristics, where no harmonised standard exists, our cements have the Certificate of Conformity in accordance with Royal Decrees 1313/1988 and 605/2006.

All the cements manufactured by CEMENTVAL are guaranteed by the **APPLUS** voluntary cement certification, which can be identified by the **A+** mark on our containers and delivery notes (a mark recognised by the Ministry of Development, accessible on its website).

The voluntary quality mark gives added value to our products, thanks to a greater number of controls and periodic inspections, as well as the periodic verification of our products on the market. CEMENTVAL maintains a policy of improving the quality of the products we develop, and with this, we have achieved recognition of our cement on the international market through the **NF** Mark, granted by **AFNOR** Certification and endorsed by the Paris Materials Testing Laboratory.

In this way, through these certifications, both mandatory and voluntary quality marks, our cements meet the highest quality standards. Our main objective is to supply customers with products that convey confidence and safety.

Applus⁺



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Environment

CEMENTVAL MATERIALES DE CONSTRUCCIÓN, S.L. is committed to preserving the environment and actively participating in environmental sustainability. In this line, our factory in Puerto de Sagunto has an Environmental Management System implemented and certified according to the **ISO 14001** standard since September 2008 which, beyond compliance with applicable environmental legislation, is a driving force for the continuous improvement of the environmental aspects identified in our activity.

Continuing with this line of work, the continuous improvement in the manufacture of our cements is projected in parallel with the Environmental Policy. Some of the practices implemented and certified in our grinding are

- The Best Available Techniques for the manufacture of cement in accordance with **EU Directive 2010/75**.
- Sustainable management of natural resources through manufacturing optimization .
- To incorporate alternative raw materials into the manufacturing process that will result in the recovery of waste and a reduction in the emission of CO2 into the atmosphere.
- To implement deposit-return systems, to participate with suppliers of raw materials in policies to reduce packaging waste in the market.
- Purchase of auxiliary raw materials with chain and custody certification, repair and reuse policies for auxiliary raw materials to reduce waste generated in shipping, etc.

According to the very term of Sustainability, CEMENTVAL MATERIALES DE CONSTRUCCIÓN, S.L. in addition to acquiring a commitment to society by contributing to regional and national economic development, it prioritizes innovation for growth, especially in environmental technologies, a tool to achieve strategies for performance, growth and competitiveness.



Contact

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+ information

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