Open a new world of performance…
At the heart of your formulations

Consistent quality, reliability and the commitment to always better serve customers are the pillars of Kerneos. We have built strong long lasting relationships with our customers based on the best in class supply chain, strong R&D capacities and dedicated technical teams to the drymix mortar industry, as well as a wide product range.

As a worldwide key supplier to the Building Chemistry industry, we are committed to constantly bringing drymix mortar manufacturers the continuous developments and long lasting benefits they expect from a leader. This includes the design of new dedicated products meeting specific market expectations and the development of calcium aluminate based innovative solutions in line with the major construction trends.

The acquisition of Peramin®, a specialist in powder polymers, demonstrates our ambition of designing solutions based on calcium aluminate and other mineral or organic technologies.

For one hundred years, the development, production and supply of calcium aluminates around the world has been our business. Proximity to customers and innovation have created Kerneos’ strength.
Universally known as the inventor of Ciment Fondu® in 1908. Kerneos is the new name of Lafarge Aluminates. This new name reflects our ambition to offer customers innovative calcium aluminate based technical solutions in all of our markets, while continuing to maintain high product quality and service reliability.

A worldwide network of partnering customers in more than 100 countries:
> Local technical experts and commercial teams.
> 8 plants on five continents for rapid and secure supply.

A customer oriented Research and Development team offering a strong support to calcium aluminate technology development in drymix mortars:
> Research and Development Center in France (Lyon).
> Application laboratories in China (Tianjin) and North America (Norfolk, Virginia).

High quality products, consistency, reliability:
> Identical quality standards throughout the world.
> Quality management systems certified according to ISO 9001 standard requirements.

The worldwide leader in calcium aluminate technology providing the drymix mortar industry with binders and additives delivering unique properties to a wide range of applications:
✓ Quick set and rapid hardening
✓ Rapid drying
✓ Size variation control
✓ Mechanical strength
✓ Colors
✓ Non-efflorescence
✓ Abrasion resistance
✓ Resistance to corrosion
✓ Environmentally-friendly

Consistent quality, reliability and the commitment to better serve its customers are the pillars of Kerneos.
Ensuring quality and long-term regularity of performance

Kerneos is committed to offer its customers products fulfilling the same high quality and regularity standards everywhere in the world. Major investments are continuously made in our plants, both in process and quality control equipment to ensure that our products always benefit from the latest manufacturing technologies.

Quality, reliability, proximity

A global production and distribution network allows Kerneos to manage various flexible and efficient delivery systems to offer reliable supply worldwide.

All Kerneos products are made and controlled through quality management systems that are certified according to ISO 9001 standard requirements. Strong expertise and experience sharing among our unique team of plant engineers enables us to ensure quality harmonization and improvement.

Customers have the ability to easily switch production from one country to another as Kerneos is providing them with identical products from several plants.

Guaranteed delivery through a high performance supply chain

With 8 factories in 5 continents and many commercial subsidiaries managing additional warehouses, Kerneos guarantees a continuous supply to its customers wherever they are located.

All products can be rapidly dispatched and delivered from at least two plants.

Kerneos has a dedicated supply chain team to study, set up and manage efficient and optimized logistic solutions meeting customers requirements. When necessary, we develop customized solutions to ensure short term deliveries.

Worldwide network, local presence

In the context of globalization of the construction industry, having suppliers with a truly global activity is critical. Kerneos is a genuine and reliable partner offering local presence, global product availability and a local understanding of customers requirements and evolution.
Calcium aluminates are key constituents of Building Chemistry formulations.

An application-driven company dedicated to your developments

The understanding of calcium aluminate interactions with other formulation components is a key requirement to continuously enhance the performance of drymix mortars.

With highly qualified and experienced scientists and engineers, Kerneos Research Center (KRC) in Lyon is at the leading edge of calcium aluminate technology.

With the involvement of a multidisciplinary team of experts skilled in mineral and organic chemistry, polymers, powder technology, material science... our Building Chemistry research programs benefit from the most recent knowledge in formulation science dedicated to the drymix mortar industry.

This expertise, built over many years, is a strong asset allowing Kerneos to efficiently support its customers developments and partner with them to create value and develop faster new formulations.

Open a new world of performance...

Kerneos is capitalizing on its expertise and understanding of various key technologies to develop and offer new innovative solutions to the market. These solutions are specifically designed to offer new performances enabling our clients to develop the new generation of drymix mortars in line with the key trends of the construction industry:

- Consistency of building materials and predictability in placing and final performances,
- Ease and speed of application,
- Aesthetic features,
- Reduction of total construction cost,
- Environmental compliance.

From core science to field conditions

Kerneos R&D engineers and technical experts are in close contact with many leading universities and specialized institutes all over the world. They are also members of trade associations or standardization commissions worldwide. Our laboratory teams are equipped with pilot facilities to assess product behaviour under job-site conditions and take into account the method of application. Consequently Kerneos has developed an in-depth scientific and applied technical understanding and expertise which is shared with our clients engineers.
Sharing expertise

Technical support worldwide

Pioneer and innovator in calcium aluminate technology, Kerneos has developed strong local technical teams in order to help customers to enhance performance and develop new products.

This is supported through:

> A worldwide network of technical development managers, supporting customers to design their formulations and understand raw material interactions;

> The expertise and the tests, studies or in-depth analyses carried out on calcium aluminate products and / or formulations in the Research Center in Lyon or in application laboratories;

> The partnerships that can be developed with customers for solving specific technical problems, designing solutions or participating in product developments.

Sharing expertise...

Training programs can be arranged according to customer specific requirements. Technical seminars are regularly organized throughout the world with subjects such as hydration and properties of calcium aluminate products, formulation knowledge, existing and emerging Building Chemistry applications requiring the use of calcium aluminate technology...

Extensive technical literature including technical papers is available on request.

Providing solutions to your needs

With its eight primary functions, calcium aluminate is a unique technology providing solutions to the Building Chemistry market requirements.

This functional approach combined with an in-depth understanding and analyses of the required performance and current unmet needs in our clients applications is used to define the future development of our product range.

The 8 fundamental functions of calcium aluminate:

- Quick set and rapid hardening
- Mechanical strength
- Abrasion resistance
- Rapid drying
- Resistance to corrosion
- Size variation control
- Environmentally friendly
- Non-efflorescence
- Colors
- Non-efflorescence

These functions provide additional key selling benefits for drymix formulators in terms of:

- Enhanced long term performance,
- Time-saving,
- Assured performance,
- Aesthetic features.
Kerneos has developed a broad range of calcium aluminates providing the Building Chemistry industry with a full spectrum of performance.

A broad portfolio of specific products and solutions

The Building Chemistry product range includes the following calcium aluminates commercially available in most countries:

- **CIMENT FONDU®**: the well known universal calcium aluminate hydraulic binder used in a wide range of drymix mortars.

- **TERNAL® range**: best in class calcium aluminates specifically designed for Building Chemistry applications such as: TERNAL® RG, TERNAL® LC, TERNAL® WHITE...

- **ALAG®**: calcium aluminate based synthetic aggregates of high density and extreme hardness achieving a perfect bond with the cement matrix, especially well suited to achieve exceptional corrosion and abrasion resistance.

TERNAL® range has been specifically developed to meet the most stringent demands of Building Chemistry manufacturers in terms of consistency and higher performance. It shows Kerneos strong commitment to product quality with a unique set of characteristics recognized as the most relevant for use in Building Chemistry formulations.

Other products are offered to meet local needs on a limited geographical basis.

The flexibility of calcium aluminates properties enables Building Chemistry formulators to develop products for a wide range of applications:

- **Floorings**
  - Self-Leveling Underlayments and Overlayments
  - Patching compounds
  - Ceramic tile adhesives and grouts
  - Natural stones adhesives and grouts
  - Screeds

- **Facades**
  - External thermal insulation composite systems
  - Decorative renders
  - Powder paints

- **Technical mortars**
  - Concrete and repair mortars
  - Fast setting mortars
  - Waterproofing mortars
  - Non-shrink grouts
Worldwide network

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