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www.cimentfondu.com

Your local merchant



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To ensure compliance with the European directive 2003/53/CE Ciment Fondu® is verified according to the NF P15-590 standard. It is not necessary to add a reducing agent for soluble Chrome (VI).

Practical Guide Ciment Fondu®



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 **kerneos**[™]
ALUMINATE TECHNOLOGIES

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ALUMINATE TECHNOLOGIES



Set acceleration of Portland cement mortars



Very rapid setting between 3 and 10 minutes

Rapid setting between 10 and 30 minutes

Applications

- Temporary support work
- Bedding in machinery
- Renders
- Fixing barriers and fences

Directions for use

- Prepare mortars accelerated with Ciment Fondu® in small quantities, 10 litres for example
- Use within 5 to 10 minutes
- Clean tools immediately after use
- Use only for non structural applications



Applications

- Patch repairs, fixing in hinges and bolts
- Repairing precast elements
- Water stops...

Directions for use

- Prepare mortars accelerated with Ciment Fondu®, 3 litres for example
- Use within 1 to 2 minutes
- Clean tools immediately after use
- Use only for non structural applications



Mix proportions for rapid setting between 10 and 30 minutes



Ciment Fondu®



2 x 500 g
Ciment Fondu®



10 l



Mortar/concrete with 350 kg of Portland cement per m³

Mix proportions for rapid setting between 3 and 10 minutes



Ciment Fondu®



3 x 500 g
Ciment Fondu®



10 l



Rapid return to service of concrete and mortars



USE AS CEMENT

Fast hardening and rapid drying Ciment Fondu® concretes and mortars

Applications

- Road & rail repairs (traffic after 6 hours)
office & retail flooring
- Ready to accept floor (covering after 48 hours)
- Street-furniture & signs
- Setting in security fencing, posts and gates
- Cold weather concreting down to - 10°C
(protect from freezing prior to set)
- Industrial floors



Mix proportions for concrete*



Mix proportions for mortar*



Directions for use

PREPARATION

All formwork should be watertight clean and coated with mould oil. To provide a good key for bonding, the base concrete should be free of laitance and soaked with water.

MIXING

Mix cement and aggregates in the mixer or with a shovel. The ingredients are usually added in the following order : 80% of the prepared water, gravel, Ciment Fondu®, sand, balance of the water, to obtain a plastic consistency.

CASTING

For the best performance, the concrete should be compacted by rodding or vibration.

DEMOULDING

Should be done as soon as possible (normally 4-5 hours after casting for non load-bearing structures).

CURING

Due to the rapid evolution of heat during hardening, Ciment Fondu® based concrete and mortars must be kept damp immediately after setting and during the first 24 hours by regular spraying of water, use of wet sacking or a curing compound.



Guidelines

- Use clean mixing equipment and drinking water
- Never exceed 10 litres of water for 25 kg of Ciment Fondu® (water/cement < 0.40)
- In hot weather, use cold water, avoid hot materials and avoid working in direct sunlight.

USE AS CEMENT

* water/cement ≤ 0.4 is the minimum proportion of Ciment Fondu® for 400 Kg/m³. According to EN 14647 standard.



USE AS CEMENT

To resist extreme conditions



High temperatures

Applications

- Fireplace & chimney construction
- Barbeques & pizza ovens
- Incinerators
- Fire training areas
- Foundry floors & metallurgical works



Guidelines

- Selection of the aggregates should be appropriate to the temperature requirement (See below)

Type of aggregates	Maximum service temperature
Siliceous	500°C
Basalt/granite	800°C
Alag®	1100°C
Chamotte	1250°C



- Allow at least 48 hours prior to use

Mix proportions

For more information contact our technical department.

Applications

- Sewer networks
- Marine environments
- Agricultural buildings
- Food processing industries

Directions for use

- Use clean mixing equipment and drinking water
- Never exceed 10 litres of water for 25 kg of Ciment Fondu® (water/cement < 0.40)
- In hot weather, use cold water, avoid hot materials and avoid working in direct sunlight

Corrosion



Mix proportions for concrete



Mix proportions for mortar



USE AS CEMENT