



To resist extreme conditions

[RETURN](#) ↑

High temperatures

Used with appropriate refractory aggregates, Ciment Fondu® mortars & concretes can withstand up to 1200°C.

Applications

- Fireplace & chimney construction
- Barbecues & pizza ovens
- Incinerators
- Foundry floors & metallurgical works



Directions for use with siliceous aggregates

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, adding the 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.

FIRST USE

Allow at least 48 hours prior to use.



Guidelines

1. Selection of the aggregates should be appropriate to the temperature requirement (see below)

Type or aggregates	Max. service temperature
Siliceous	500°C
Basalt/granite	800°C
Alag®	1100°C
Chamotte	1250°C

2. Where thermal shock &/or abrasion is present, the use of synthetic Alag® aggregate is recommended, which resists up to 1100°C [[more details](#)]

Dosage for concrete



Dosage for mortar



Ciment Fondu® concrete may be batched and delivered ready mixed.

For more information:
(PDF files)

Refractory mortars & concretes

Product datasheets:
(PDF files)

Ciment Fondu®

Alag®

Print