

Print **Is Ciment Fondu® approved for CE Marking?**

Ciment Fondu® has obtained a certificate of conformity for CE marking in accordance with the relevant norm EN14647 for calcium aluminat cements.

What is recommended mix design for a Ciment Fondu® concrete?

The dosage of cement should be a minimum of 400kg/m³ and water / cement ratio of 0.40 maximum. For users of sacks detailed instructions are given on the bag. For bulk quantities please contact Kerneos technical staff or your concrete producer.

Can I use any water to make a Ciment Fondu® concrete?

No, it is strongly recommended to use drinking water.

Is it possible to obtain Ciment Fondu® concrete from a Ready-Mix Producer?

Yes it is possible to produce Ciment Fondu® concrete from a batch plant or in a ready-mix truck. The Ready-Mix Producer will have to take few simple cautions (cleanliness of equipments, drinking water, transport time, etc.).

Is the shrinkage of Ciment Fondu® concrete greater than Portland cement concrete?

The shrinkage of Ciment Fondu® concrete is similar to Portland cement concrete but most of this shrinkage happens considerably faster (within a few days). Therefore, Ciment Fondu® concrete requires closer spaced joints than traditional concrete.

Can I make thin screeds/toppings (< 50 mm) out of Ciment Fondu® concrete or mortar?

It is possible, but special care must be taken. The very rapid hardening is accompanied by a higher rate of shrinkage which may lead to problems like debonding, curling or cracking. Please consult our Technical Dept.

Can Ciment Fondu® be used without any sand or aggregate?

No, this cement must always be used with aggregates.
Please refer to the instructions on the back of the sack or our practical guide.

What safety precautions do I have to take to use Ciment Fondu®?

It is advised to use gloves and eye protection. See the Safety Data Sheet for more information.

Is it necessary to use a poker vibrator or equivalent means of compaction to cast Ciment Fondu® concretes?

Yes. Firstly it makes placing of this concrete easier and secondly it enables complete filling of the formwork.

Can Ciment Fondu® be placed in cold weather or in a cold room?

Ciment Fondu® concretes and mortars can be used at low temperatures down to -10°C. The concrete must be mixed at ambient temperature and with non-frozen aggregates. It is also necessary after placing to prevent it from freezing, either from the cold air or contact with surrounding materials whose temperature is lower than 0°C. This can be achieved by insulating the surface of the concrete (e.g. with polystyrene).

Can Ciment Fondu® be placed in hot weather?

As with any cement, at temperature above 25°C the working time is shortened. For this reason, in hot weather, we advise the addition of a retarder. N.B. Ciment Fondu® chemistry is different from Portland cements and therefore the retarder used should be checked. Please consult our Technical Department for further advice.

Can Ciment Fondu® concretes & mortars be used in direct contact with drinking water?

No, Ciment Fondu® is not approved for such use.

Can reinforcement be used with Ciment Fondu® concrete?

Yes, by using the same rules that apply to traditional concretes.

Does a lighter colour Ciment Fondu® exist?

Ciment Fondu® is dark grey but we also offer other cements with colours from light grey to white, Secar® 51, Secar® 71 and Secar® 80. Please consult us for the use and specific dosage rates with these products.

Is Ciment Fondu® an acid proof cement?

No, Ciment Fondu® is not acid proof but performs much better than Portland cement solutions, typically against bacterial or acid corrosion down to pH 4. In particular, it is frequently used for the protection of sewerage networks, sea wall defence or for concretes and mortars in agricultural environments. Between pH 4 and pH 3.5, we advise you to use a mortar or concrete made with Ciment Fondu® and Alag® aggregates (see Alag® Product Data sheet).

For more specific information please contact our Technical Dept.

