

CIMENT FONDU

Additive for Fast-Curing Cement Grout Mixes

Product Overview

CIMENT FONDU is a specialized additive made from calcium aluminates (CaO & Al₂O₃) and other minor ingredients. It is engineered to accelerate curing times in cement grout mixes, making it ideal for applications requiring rapid strength development. This additive is particularly beneficial in mining and heavy civil construction projects where fast hardening of grout is critical, as well as in high-temperature or corrosive environments.



Key Features

- **Rapid Setting and High Early Strength:** Achieves quick curing times, allowing for faster project turnaround.
- **Chemical, Heat, and Abrasion Resistance:** Offers superior durability in extreme conditions, including high temperatures and corrosive environments.
- **Versatility and Workability:** Compatible with various types of cement and easy to work with, providing flexibility in diverse applications.
- **Reduced Shrinkage:** Minimizes shrinkage compared to conventional cements, enhancing the stability and longevity of the grout.

Physical Properties

Colour	Gray/brown
Physical State	Powder
Bulk Density	1100 kg/m ³
Specific Gravity	3.2 - 3.3 g/cm ³
Shelf Life	Up to 12 months
Packaging	Available in 20 kg pails

Applications

- **Mining Operations:** Ideal for setting drill casings and grout standpipes where rapid hardening is required to reduce downtime before re-drilling.
- **Heavy Civil Construction:** Used to seal fractured ground conditions, allowing for secure installation of instrumentation or rock anchors in projects that require re-drilling.
- **Refractory Applications:** Provides high-temperature resistance, making it suitable for use in environments where extreme heat is present.
- **Corrosive Environments:** Effective in industrial settings exposed to corrosive substances, ensuring long-term performance and durability.

Application Guidelines

Preparation: Mix water and type GU (General Use) or HE (High Early strength) cement in appropriate proportions to create a homogeneous cement slurry using a paddle mix tank, high-shear mixer, or colloidal grout mixer. Add **CIMENT FONDU** to the pre-mixed water/cement slurry.

Application: When fast-setting cement grouts are required, use a low water-to-cement (W/C) ratio, such as W/C = 0.5 (10 L water to 20 kg combined cement). Higher W/C ratios will result in longer curing times. For new grouting projects, start with a ratio of 90/10 (or 10:1 by weight) type GU:CIMENT FONDU, observe the curing rate, and adjust the mix ratio accordingly.

Clean Up: Flush mixers, pumps, hoses, and grouting accessories with clean water immediately after use.

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Recommended Equipment

It can be used with a paddle mix tank, a high-shear mixer, or a colloidal grout mixer.

Limitations

- Test batches to verify cement grout characteristics should be prepared before the application.

Safety & Handling

This material is intended for use by trained professionals with the proper equipment. Follow all current regulations and standards. Wear suitable protective equipment to prevent skin or eye contamination. Ensure adequate ventilation and avoid inhaling dust. Refer to the Safety Data Sheet (SDS) for detailed first aid information.

Customer Service & Orders

For additional information, please call us at 1-800-663-6633 or email info@multiurethanes.com.

Company Overview

Multiurethanes is a leading international supplier of materials, equipment, and technical support services for all types of grouting operations, including water cut-off, soil stabilization, concrete repair, sewer rehabilitation and waterproofing.