

Drymix Mortars Admixture

Vitalaccelerator[®] - Calcium Formate

Description

Calcium Formate is an additive in powder & crystalline form which will allow the formulator to improve the accelerating and hardening effect on the strength development and adhesion properties of all cement based mortars.

Applications

Calcium Formate can be used in concrete, dry mortar and tile adhesives, it acts on both setting and hardening time by accelerating the formation of tricalcium alluminate silicate. Depending on dosage Calcium Formate also strongly modifies the initial workability of the wet mortar.

Use

Calcium Formate is used in all cement based systems that need the improvement of early or later strength, in particular in all mix designs containing setting time retarders. It is successfully used in the formulation of tile adhesives to improve the workability and to extend the film formation time. It also gives the same advantages in all mixtures containing Cellulose ethers and Redispersible polymer powder.

Benefits in Use

- Improved strengths
- Improved adhesion strengths
- Low temperatures

Specification

Type	Cafo-P	Cafo-C
Appearance	Powder	Crystalline
Calcium formate%	≥98	
Ca Content(%)	≥30.1	
Dry-loss(%)	≤0.5	

Addition Rates

Dosage rates will be dependant on mix design, process, types of materials and the desired effect but typically:

500gms - 2000gms per 100 kg cement
(0.50% - 2.00% by weight of cement)

It is advisable to carry out preliminary tests to establish the correct dosage for the application.

Standards

Calcium Formate is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.

Compatibility

Calcium Formate is compatible with all Portland cement systems, including Ground Granulated Blast Furnace Slag and limestone blends.

Calcium Formate is compatible with all Vitchem admixtures, but should be added to the mix separately.

Disclaimer

Storage

Store the product in a cool dry and ventilated environment. Moisture ingress can cause the product to not work as effectively as the original product and Also produces hard lumps

Packaging

Calcium Formate is supplied in 25kg bags.

Scale find more information(Photos;Video;Documents)



Handling

Calcium Formate is not an irritant by contact with the skin, it can be easily removed from any surface with soap and water. Inhalation can cause an irritation of the first part of the respirator tract, this sensation disappears immediately when you stop handling it, it is therefore advisable to use a dust mask and avoid its dispersion in the environment. In case of accidental spillage it must be picked up in its dry state and discharged in an authorised waster dump.

Refer to the Material Safety Data Sheet for full details.

Please consult the Vitchem Technical Department for advice on admixture selection.

Vit Chemical GmbH
Info@vitchem.com
www.vitchem.com
Hamburg, Germany

Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.