

ROCKER, CEMENT GRINDING AIDS – NEW GENERATION

ROCKER Construction Chemicals incorporated company, unlike known multinational firms, was done first technical researches and developments in the following mentioned sector with own know-how, specialist staff and engineers and continues to work.

As a result of this Project, cement grinding aids that we have developed were given to the domestic and foreign firms and are continued to give.

Our experienced team in the sector and with own know-how that we have; For your all type of cement and grinding process, we suggest special grinding aids and want to realise industrial tests.

- Increasing capacity, lowering the energy need,
- Initial and final strengt increase
- C/W Ratio and initial/final setting time improver for better workability (new generation)



Cement grinding chemicals are divided into three groups. These groups are divided to subgroups for the needs of the customers.

Our basic understanding is; offer specific solutions for the needs of the customers instead of giving multifunctional products.

- **ROCK-CEM Series;** To increase the first- mid and final strength of the cement and to supply stability, new generation grinding chemicals.



Rocker produce special additives by using own knowledge (know-how). The effects of these special chemicals are not restricted with the cement. They provide positive effects on the resistance and strength performance of the concrete.

Definition: this series; according to the performance products of the competitors, as grinding capacity is unchanged:

- In Cem I type cement, high increasing at early and mid strengths, to supply stability at production parameters and slightly increase of final strengths.
- In cement types with additives, the high increasing especially at the first, and mid strengths and rising at final strength and to provide the lowering the water needs. In addition, it creates stability at the production parameters.

Also; the product of rocker "ROCK-CEM"; workability of concrete and the slump protection time increases. These chemicals can provide positive results in concrete too.

With the help of this mechanism, costs and also carbon dioxide emissions are decreased and efficiency of the energy is increased by increasing the usage of additives cement.

Dosing: Proposing dose for 1 tone cement is 250-1.500 gr. Depends on process conditions and the type of cement, different dosages can be. ROCKER Construction Chemicals A.Ş. technical service inform the customer for detailed information and suitable dosing amounts. When dosing amount is increased, the effects on concrete is also increased linear.

Storage: In liquid and bulk forms of products have to be stored over +4 C and indoor conditions. If the product is frozen, it has to be melted at the room temperature, without using heat. It doesn't have to be mixed by mechanical methods. If precipitation is observed, it has to be mixed. It has to be homogen.

Time of use: 12 months after produced at the suitable storage conditions.

Security Warnings: At the application, work clothes, gloves, glasses and masks have to be used for occupational health rules. These technical details and warnings, all informations above includes only main lines. They are not includes all conditions. That's why during the usage, all work conditions have to be examined. All required conditions have to be supplied. In every case, the person /people are responsible from the results of using product.

It cannot be contact to eyes and skin. If it is contacted, wash with water and soap. In the case of swallowing, has to be gone to the doctor.

In the application areas, occupational security conditions are provided and checked continously, has to be looked at MSDS for detailed information.

- **ROCK-FARCEM Serie;** These grinding aids increase cement/raw material grinding capacity and improve also mill liners life time.

Definition: It prevents aggregation in the cement or farin mills by neutralising the electrostatic charge. Efficiency of grinding process is increased by preventing adhesion of particules. It can be used all kinds of mills.

It increases the fluidity. It suplies positive effects like product transportation, equipment cleaning, long maintenance periods

The consuming of same amount of electricity that means the saving of electricity makes possible the increase in production or it is possible to increase the strength of the cement with the same production process. According to the mill production without additives, increasing in expected capacity will be between %10 and % 25 but it depends on the performance of the product, the conditions of the grinding equipment, the properties of the grind materials, the conditions of the process and the type of the cement.

Dosing: Suggested dose is 250-700 grams for 1 ton of cement. Different dosing can be applicated by depending on the process conditions and the type of the cement. It should be consulted to rocker for detailed information and suitable dosing amount.

Storage: In liquid and bulk forms of products have to be stored over +4 C and indoor conditions. If the product is frozen, it ihas to be melted at the room temperature, without using heat. It doesn't have to be mixed by mechanical methods. If precipitation is observed, it has to be mixed. It has to be homogen.

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- **ROCK-SETCEM Serie;** Chemical grinding aids that adjust the setting time of the product (longer/shorter), optimize the cement/water ratio.

Definition: These are additives; especially, concrete mixtures that are used in project like shotcrete concrete or cement with additives that adjust the setting time of the product and regulate the using of water.

These are the new generation additives that are neutralise or regulate the lack or/and negative effects of the raw material and materials in process.

The performance of the product depends on the conditions of the grinding equipment, the properties of the grind materials, the conditions of the process and the type of the cement.

Dosing: Proposing dose for 1 tone cement is 500-1.500 gr. Depends on process conditions and the type of cement, different dosages can be. ROCKER Construction Chemicals A.Ş. technical service inform the customer for detailed information and suitable dosing amounts. When dosing amount is increased, the effects on concrete is also increased linear.

Storage: In liquid and bulk forms of products have to be stored over +4 C and indoor conditions. If the product is frozen, it has to be melted at the room temperature, without using heat. It doesn't have to be mixed by mechanical methods. If precipitation is observed, it has to be mixed. It has to be homogen.

Time of use: 12 months after produced at the suitable storage conditions.

Security Warnings: At the application, work clothes, gloves, glasses and masks have to be used for occupational health rules. These technical details and warnings, all informations above includes only main lines. They are not includes all conditions. That's why during the usage, all work conditions have to be examined. All required conditions have to be supplied. In every case, the person /people are responsible from the results of using product.

It cannot be contact to eyes and skin. If it is contacted, wash with water and soap. In the case of swallowing, has to be gone to the doctor.

In the application areas, occupational security conditions are provided and checked continuously, has to be looked at MSDS for detailed information.