



Very
High
Durability
Reinforced
Concretes

From Project to Jobsite



Certified Quality System since **FEBRUARY 1993**

CEMEX M-1000/1

SHRINKAGE COMPENSATING ADDITIVE FOR OBTAINMENT OF CONCRETE WITH VOLUMETRIC STABILITY

- Description** CEMEX M-1000/1 is a powder product based on alkali-earthly oxides, which gives the studied effect of reduction or elimination of the shrinkage of concrete and mortars, and with additional benefit, the reduction in water/cement ratio. These characteristics make it possible to produce a special concrete or mortar with exceptional mechanical and physical properties, especially in combination with the superplasticizer TECNOS®. CEMEX M-1000/1 is characterized by its expansive capacity during the first 24-48 hours.
- Advantages and characteristics** The concrete or mortar, when prepared with suitable sand and aggregates, can reach very high mechanical resistance after curing, has very high density, impermeable to water, very low or zero porosity and has excellent volumetric stability. The natural shrinkage of concrete will be reduced or eliminated by the introduction of the anti-shrinkage additive which will create an expansion during the initial curing of the concrete. This optimal result can be obtained only by accurate selection and proportion of the components of the concrete.
- Fields of use** In all situations where a concrete is desired with reduced or zero shrinkage: in waterworks, reinforced concrete, pre-compressed concrete, prefabs.
- Method of use** Mix the cement in the concrete mixer, CEMEX M-1000/1 and the aggregates. Add the water and the superplasticizer until the desired consistency and water/cement ratio is obtained; apply the concrete within 20' from the starting of mixing.
It is advisable the use of the product together with our superplasticizers Tecnos® azur and our nano-technological additives SHRINKO-tec® nano in order to obtain the maximum benefit of the CEMEX M-1000/1 modification in function of the reduction in water/cement ratio.
- Remarks** Our Technical Department is at our customers disposal for the determination of right cement to be used and for the determination of suitable aggregates for special applications. General rule is to use a Portland 42,5 cement, not less than 300 kg/m³, and to use quartz sand. Also lime-quartz fillers, river deposit or well washed alluvial sand can be used when the mineralogical characteristics are suitable as aggregate for concrete, if compacted, have low porosity, and high physico-mechanical strength.
The expansion of CEMEX M-1000/1 is completed during the first 24-48 hours, keep therefore the concrete wet during this period or avoid the evaporation for the first two days. For all the applications where it is necessary to know and understand an exact dimensional variations of the applied product (precision anchorage, structural repairs) we can advise our products, which are ready to use and specially prepared to reach all the particular demands.
It is not recommended the use of other additives in general. In case of specific requirements, consult our Technical Department.
Keep the packaging always well closed once opened up, in order to avoid the product degradation. Keep away from humidity.
- Storage:** the product can be kept for at least 3 months if stored in dry and protected conditions, in the original unopened packaging, between +5° C and +35° C.
The bags must be protected with the plastic pallet covering
For long conservations put the bags in well sealed containers.

Emission date : 01/2006
Revision date : 12/2011

Nr. rev: 3

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Packaging 20 kg bag.

Dosage From 5 to 10 Kg. per 100 Kg. of cement depending on the required shrinkage compensation and in function of the percentage of the calculated reinforcement steel and of the total amount of cement used.

Safety indications Read carefully the safety indications on the packaging, or consult the relevant safety data sheet of this product.

Xi: Irritant

R41: Risk of serious damage to eyes

S26: In case of contact with eyes, rinse immediately with abundant water and seek medical advice.

S39: Wear eye/face protection.

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage. Technical characteristic in this technical data sheet are up-to-dated periodically. Revision date of this technical data sheet is indicated below.

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