

MA 940

Cement Additive for Special Cements

Product Description

MA 940 is a chemical additive to be interground during the manufacture of masonry cements and/or multipurpose cements, to provide good workability and long board life through controlled air entrainment and high water retention. MA 940 eliminates the need to add at the job site separate materials to impart this combination of properties to the mortar. MA 940 is based on an aqueous solution of selected raw materials to suit the requirements of the cement manufacture.

Physical Properties

MA 940	
Appearance	Brown liquid
Density (g/l)	1065-1085
pH	7,0-9,0

Recommended Addition Rate

According to GCP experience the addition rate of MA 940 is typically in the range of 500-1000 g/t of treated masonry cement. However the 400 addition rate of MA 940 depends on the type of masonry cement and the performances requirements. GCP personnel are available for assistance. Deviation from the optimum cannot guarantee the expected results. Overdosing can increase the air entrainment.

Advantages

- Controlled air entrainment
- Excellent workability, extended boardlife
- Improved flexural bond strength
- High water retention
- Reduced tendency of re-agglomeration
- Improved flowability

Benefits

MA 940 provides an air entrainment accomplished by the development of stabilised micro bubbles, which act like flexible ball bearings, increasing the plasticity and workability of the mortar produced with the treated cement. The Tytron® technology, developed at the research laboratories of GCP, provides excellent workability and extended board life with a significantly lower amount of air than the more traditional technologies, so that other mechanical properties, as the flexural bond strength, are improved.

Through the higher water retention, placeability is improved and bleeding, plastic shrinkage and segregation are minimised.

MA 940 is also a grinding aid which reduces the tendency of reagglomeration of the fine particles formed during the comminution process.

MA 940 permits improvements of the flowability, of the efficiency of mill and separator and thus increase in production rate with corresponding reduction in grinding energy.

MA 940 controls effectively the setting process and permits significant extension of the board life.

MA 940 enhances the hydration process of the hydraulic binder and therefore mortars with higher compressive strengths can be produced.

Certification

MA 940 meets the requirements of EN 197.

Typical Applications

MA 940 is designed for the economical production of high quality masonry cement such as Type MC 5 and MC 12.5 described under ENV 413.

Multipurpose cements with high filler contents can also be produced in compliance with the EN 197 requirements.

How to Use

MA 940 should be added on to the feed belt or injected pure or diluted (also with the cooling water) into the mill. For an accurate proportioning of MA 940 a volumetric metering pump is suitable. GCP personnel are available for assistance.

Packaging and Storage

MA 940 is supplied in 205 litre drums, in 1000 litre plastic containers or bulk.

MA 940 does not require particular precaution for the storage. Care has to be taken during the unloading operation: it would be suggested to fill the tank from the bottom.

MA 940 has to be protected from freezing.

For tanks and containers placed outside a heating system or a re-mixing device is suitable.

It is also better to insulate exposed pipelines.

GCP personnel can help in designing the best system.

Shelf life is at least 12 months if stored in sealed manufacturer's containers.

Handling Precautions

MA 940 does not require particular precaution for health and safety. For further advice please read the Material Safety Data Sheet. Accidental release or spillage to be absorbed with an inert, non combustible material, such as sand or sawdust. Tanks and container can be cleaned with water.

REACH

All of our products sold in the EU comply with REACH obligations. Our customers, as manufacturers or downstream users may sell their products utilizing GCP Applied Technologies products with confidence that the substances in them may be placed on the market in compliance with REACH.

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