

MasterSure GPC 7200

High Range Water Reducing Admixture for Alkali Activated Cementitious Material

Material Description

MasterSure GPC 7200 is an innovative superplasticizer developed specifically for use in the production & supply of concrete based on Alkali Activated Cementitious Materials (AACM, also sometimes referenced as geopolymer concrete).

With MasterSure GPC 7200 it is now possible to obtain a high-quality AACM with extended consistence retention and superior mix rheology. The unique polymer enables consistence retention to be achieved across a broad spectrum of consistence classes (S3 to F6).

Fields of Application

MasterSure GPC 7200 is especially beneficial for the production of high quality AACM particularly when high water reductions are required in combination with a requirement for an extended period of workability e.g. long-distance deliveries, or deliveries with extended discharge times. MasterSure GPC 7200 is designed to exhibit workability retention

Characteristics and Benefits

The numerous benefits offered by MasterSure GPC 7200 contribute significantly to making possible the production of AACM, an innovative material that offers the following benefits for:

The ready-mix producer:

- Production of AACM with low water binder ratio without loss of workability and with a positive aspect on the mix rheology.
- Low carbon footprint concrete.
- Ability to produce a family of AACM mixes utilising the required activator & MasterSure GPC 7200.
- Confidence that the workability & rheology will be the same at the job site as it was when first produced.

The contractor / applicator:

- Significantly lower embodied carbon content than conventional concrete
- AACM placing in the same manner as conventional concrete.
- Improved durability & especially resistance against sulfate attack.

- Sufficient strength development to maintain the desired construction programme.

The engineer:

- A genuine low embodied carbon footprint AACM alternative to traditional concrete.
- A readily available alternative to traditional cement based concrete.

Dosage

The normally recommended dosage rate of MasterSure GPC 7200 is approximately:

- *By Volume* - 0.60 to 4.00 litres per 100 kg of cement (binder) content.
- *By Weight* - 0.65 to 4.36 kg per 100 kg of cement (binder) content.

The dosage rates given above are for typical usages, they are not meant as absolute limits, as other dosages may be utilised in special cases according to specific job conditions. If required consult our Technical Services Department for advice. Trial mixes should be carried out to ensure optimum dosage and effect. Where the concrete is to be machine finished by utilising power float or power trowelling methods, we recommend that you contact the Technical Services Department for dosage rate guidance.

Mixing

MasterSure GPC 7200 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal results are obtained if MasterSure GPC 7200 is dispensed into the AACFM mix after the addition of the first 80% of the mixing water, & immediately after the addition of the activator. Avoid adding the admixture to the dry aggregates and binder. If needed, trial mixes should be carried out to ensure optimum dosage sequence.

Compatibility

As MasterSure GPC 7200 has been developed to work with AACM's, please contact our Technical Services Department, for guidance on mix designs & suitability.

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MasterSure GPC 7200 should not be pre-mixed, or used with other admixtures without contact our Technical Services Department first.

Packaging

MasterSure GPC 7200 is supplied in Bulk, 1000-litre IBC's and 15-litre containers.

Contact Details

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Product Data	
Appearance:	Brown, slightly cloudy
Specific gravity @ 20°C:	1.09 ± 0.02 g/cm ³
pH-value:	4.0 ± 1.0
Solids content (%):	23.0 ± 1.5
Alkali content (%):	TBC
Chloride content (%):	TBC
Logistics	
Shelf life:	6 months if stored according to manufacturer's instructions in unopened container.
Storage conditions:	Store in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Handling and transportation:	Refer to MasterSure GPC 7200 Safety Data Sheet
Disposal:	Refer to MasterSure GPC 7200 Safety Data Sheet

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Disclaimer

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Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

DISCLAIMER

"Master Builders Solutions UK Ltd" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.