MORTARD® DR

Powdered Mortar Retarder

Product Description

MORTARD® DR is a powdered mortar retarder for use in dry silo mortar. It has been specifically developed for cement:lime:sand mortars but is equally effective in cement:sand only mortars. MORTARD® DR is formulated from carefully selected raw materials and is manufactured under controlled conditions to give a consistent product and complies EN 934-3.

Advantages

- MORTARD® DR enables controlled set retardation of mortars to be achieved
- Mortars having a usable life of 8 - 36 hours can be produced if required
- Enables production of dry silo mortars having properties tailored to customer requirements for use at their convenience

Typical Properties

MORTARD® DR	
Appearance	Off white powder
Bulk Density	850 kg/m^3
Alkali Content (eq.Na_2O)	2.50%
Chloride Content	Nil
Air Entrainment	See "Addition Rates"
Freezing Point	-2°C

Method Of Use

MORTARD® DR is supplied ready for use. It should be added to the dry mortar mix during the mixing process at the same time as the water or fine aggregate, but not directly onto cement. No extension of normal mortar mixing time is necessary. The amount of MORTARD® DR required is dependent on the characteristics of the mortar constituents and the level of air entrainment required. Factors which affect this are:

- Type and efficiency of the mixing equipment
- Water content
- Fine aggregate content, grading and type
- Cement/lime content and type
- Temperature

Compatibility

With Cements :

MORTARD® DR can be used with most types of Portland cements. It is also effective in mortar containing fly ash or ground granulated blastfurnace slag. For use with special cements we recommend contacting GCP Applied Technologies.

With Other Admixtures:

MORTARD® DR should not be premixed with other admixtures. The performance of the product will be affected by the presence of other chemical admixtures. We recommend that all admixtures be added separately into the mix.
It is essential that preliminary plant trials are performed so that the actual dosage rates can be determined, taking into account the contributing factors stated.

Effects of Overdosing

The effect of overdosing MORTARD® DR is a function of the degree of overdose.

Severe overdosing with MORTARD® DR will result in excess retardation, which will manifest in prolonged “greenness” and slow development of the intrinsic strength of the mortar. The bonding of the mortar to the brick/blockwork may be
adversely affected as the mortar may become desiccated prior to its set.

Addition Rates

Range	200 ml - 1000 ml per 100 kg cement
	0.20% - 1.00% (v/w) by wt. of cement
As a guide to trials an addition rate of 0.40 - 0.80% volume by weight of cement is suggested.	
For advice and assistance with trials we recommend that you consult GCP Applied Technologies.	

Dispensing

It is preferable that MORTARD® DR should be introduced into the mixer by automatic dispensing equipment.
Equipment or advice on dispensing can be obtained from GCP Applied Technologies.

Health and Safety

For further information on Health and Safety matters regarding this product we recommend that you consult the relevant Safety Data Sheet from GCP Applied Technologies. In line with general chemical handling precautions avoid contact
with skin or eyes and protective gloves/goggles should be worn.

Packaging

MORTARD® DR is supplied in 25 kg or 1000 kg bulk bags

Storage

MORTARD® DR should be stored in a cool, dry place protected from rain, extremes of temperature and sources of ignition.

Storage Life in Manufacturers Bags:
12 months from date of manufacture.

Technical Service

Our Technical Service department of GCP Applied Technologies is available to assist you in the correct use of our performance chemicals.

Last Updated: 2025-05-13
gcpat.uk/solutions/products/mortard-dr