

FEBMIX DH

Powder Mortar Plasticiser

Description of Product

FEBMIX DH is a mortar plasticiser in powder form for use as an alternative to lime or as a supplement to lime to aid mortar durability. Complies with BS 4887: Pt1

Fields of Application

For use as an admixture for mortars to improve workability, in both bricklaying and rendering applications.

FEBMIX DH aids resistance of mortar to frost attack in both wet and cured state; also increases long term durability of both cement, sand and cement, lime, sand mortars (refer to BS 5628).

Features and Benefits

- Economical:
 - reduced labour costs
 - reduced wastage
 - increased spread rates.
- Helps reduce efflorescence.
- Reduces bleed and segregation in the mix.
- Improved bond.
- Improves frost resistance.
- Reduces shrinkage.

Technical Data/Typical Properties

Colour	Brown powder
Chloride Ion Content	<0.1%% (w/w) of admixture (nil)

FEBMIX DH will entrain microscopic air bubbles into cement mortars in a controlled manner as specified in BS 4887.

Air entrained mixes produce greatly enhanced working properties with a reduced demand for mixing water. FEBMIX DH also improves frost resistance in both freshly laid and hardened mortars, as the microscopic air bubbles entrained provide space for expansion of water due to freezing.

Application Procedure

Application

FEBMIX DH may be added directly into the mixing drum after the addition of sand or pre-mixed with the gauging water. The use of FEBMIX DH pre-weighed sachets introduced directly to the mix optimises control of dosage and minimises wastage.

Mixing

The action of FEBMIX DH is entirely physical and therefore requires an efficient mixing action. If mixing is to take place by hand the mix must be well "turned over" to achieve the maximum plasticising effect.

Mortar selection should be made in line with the relevant National Standards and Codes of Practice.

The table below gives indicative mix designs relative to uses with and without FEBMIX DH.

Cement : Sand + FEBMIX DH	Cement: Lime Sand	Typical Uses
1:3	1:¼:3	Laying load-bearing brick work.
1:4	1:0.5:4.5	External Rendering (exposed positions). Backing and bedding coats (rough cast).
1:6	1:1:6	Internal plaster floating coats . External rendering.
1:3 to 1:6	Varies	Brickwork, pointing or re-pointing.
1:8	1:2:9	Laying blocks and concrete or sand-lime bricks.

Portland Cement: Lime, sand mixes which also include an air entraining plasticiser have been shown to be particularly durable in accelerated testing.

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Dosage

FEBMIX DH is added at the rate of 30-60 g per 100 Kg of cement. Always use the type of sand recommended for a particular application. Test mixes should be carried out to determine optimum dosage.

Packaging

Available in 250 pre-measured sachets.

Storage

Store in cool, dry conditions.

Shelf Life

Minimum two years when stored in accordance with the manufacturer's instructions.

Watchpoints

FEBMIX DH provides protection from frost down to -2°C in the wet mortar. Normal winter working precautions must be taken.

For temperatures below -2°C use FEB WINTAMIX.

FEBMIX DH - Degussa Construction Chemicals UK Version 3

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.

Solvent Based Products

Use in well ventilated areas; avoid inhaling. Suitable respiratory equipment may be needed, eg when spraying. Can cause skin, eye irritation. Wear protective eye shields and gloves during use. Do not smoke or allow sparks or naked lights when stored or in use.

Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes which should be protected during use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer:

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