

Sikamix Plus

Mortar Plasticiser

Description of Product

Sikamix Plus is an air entraining liquid plasticizing admixture designed specifically to cope with the different qualities of sand, cement and water found in South Wales and the West Country.

SIKAMIX PLUS is a liquid ultra stable 'micro' air entraining mortar plasticiser designed to enhance the workability and freeze thaw resistance of brick and block laying mortars. SIKAMIX PLUS may be used to replace or supplement the use of lime, and is designed to maintain efficiency with variations in cement and aggregate sources. SIKAMIX PLUS conforms fully to the requirements of EN 934 Part 3(2009) specification for air entraining (plasticising) mortar admixtures.

Typical uses:

SIKAMIX PLUS is designed to be used as a mortar plasticising admixture in brick and block laying mortars.

The 'micro' air entraining properties of SIKAMIX PLUS greatly improves the workability of the mortar whilst reducing water demand, thus greatly reducing the likelihood of cracking and crazing. SIKAMIX PLUS will also provide enhanced resistance to frost attack in both wet and hardened mortar state.

Features and Benefits

- Ultra stable bubble structure.
- Uniform air entrainment structure.
- Works with most types of Portland Cement and difficult sands.
- Increased resistance to damage by freeze/thaw.
- Reduced segregation and bleed.
- Non corrosive to embedded metals.
- Increased working time.
- Easier and faster mortar spread.
- Can be used to replace lime.
- Can be used with P.F.A. containing mortars.

Instructions for Use

Application

SIKAMIX PLUS may be either pre-mixed with the water or added directly into the mix at the same time as the water. **NB** The superior plasticising qualities of SIKAMIX PLUS will result in a significant reduction in water demands of any given mix.

Dosage

In all cases, add to mix or to gauging water at an addition rate of 125ml to 250ml per 50kg cement, depending on the degree of plasticizing/entrainment required. Note: remember to reduce required quantity of water accordingly. One litre of SIKAMIX PLUS added to a 200 ltr drum of gauging water will be sufficient for gauging approx. 4 x 50 kg cement for mortar or render mixes.

Compatibility

SIKAMIX PLUS can be used with other admixtures provided these are added separately to the mix. It can be used for all types of Portland Cement, including Sulphate Resisting. It can also be used in lime/sand mortars as a further precaution against frost.

Storage

Store at moderate temperatures. Will freeze, but can be reconstituted by stirring after thawing. Stir before use.

Shelf Life

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

Performance Data

Specific Gravity	1.01 @ 20°C
pH	6.6-8.6
Colour	Brown
Freezing Point	-2°C

Comparative mix designs with and without SIKAMIX PLUSas shown below:

Cement: Sand +Sikamix Plus	Cement: Lime: Sand	Masonry: Cement: Sand	Typical Uses
1:3	1: ¼ :3	-	Laying load bearing brickwork.
1:4:5	1: ¼ : 4 ¼	-	External rendering (exposed positions). Backing and bedding coats (rough cast).
1:6	1:1:6	1:4:5	Internal plaster, floating coats, rendering.
1:3 to 1:6	varies	-	Brickwork pointing or re-pointing.
1:8	1:2:9	1:6	Laying blocks or concrete or sand/lime bricks.



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EN934-3 (2009)
Air entraining/plasticizing admixture for
masonry mortar
EN934-3, T2.
Chloride content: <0.1% w/w
Alkali content : 0.1% by mass