



AERFLUX

LIQUID AERATING ADDITIVE FOR CONCRETE AND MORTAR

PROBLEM

To entrap within the cement/concrete mix a controlled quantity of macroscopic air bubbles to improve both the handling and frost/thaw cycle characteristics of the mix.

DESCRIPTION

AERFLUX is an aerating additive for concrete and mortar containing Visol Resin and surface-active substances with specific fluidising action. It is a brownish liquid which is completely water soluble. AERFLUX is chloride free and does not affect cement setting time. With AERFLUX, a measured quantity of air is introduced into the cement mix in the form of microscopic air bubbles which have a diameter size of between 20 – 100 microns; this gives the concrete and mortar a thixotropic effect which greatly increases plasticity. AERFLUX improves handling of the mix due to the effect of the fluidising component action on the cement and on the very fine particles in the inert material.

FIELDS OF USE

AERFLUX is an additive which is suitable for use when producing concrete which is resistant to frost/thaw cycles and defrost salts in roadwork construction. AERFLUX

is used in the production of ready mixed concrete which will be transported to site, mass casing, pumped concrete or white light, inert material. It is also used to correct the size of the inert material if there is a large number of very fine particles. In fresh concrete, the entrapped air acts as an artificial aggregate comparable to a very fine sand which reduces the need for additional water. AERFLUX is suitable for manufacturing mortar with improved durability and handling characteristics; it replaces the slaked lime in sand and cement mortar, improving appearance and eliminating shrinkage and efflorescence caused by the use of lime which is not well cured.

COVERAGE

Thin concrete : 60-80 g×100 kg of cement (with less than 250 kg/m³ of cement). Concrete : 60-80 g×100 kg of cement (with less than 250 kg/m³ of cement). Pumped mortar: 150-250 g×100 kg of cement. Ordinary mortar: 100-150 g×100 kg of cement.

PRECAUTIONS

- The entrapped air acts as an aggregate: sand should therefore be reduced proportionately to the volume of the entrapped air.
- The total rate of the entrapped air must be checked from time to time as it varied according to the type of aggregate and the water/cement ratio.
- Once AERFLUX has been added to the water mix it must be used immediately to prepare the concrete or mortar.
- If AERFLUX freezes, it may still be used once it has defrosted.
- AERFLUX must be stored in well sealed containers protected from frost and from direct sunlight.

SAFETY REGULATIONS

- In case of accidental contact with the eyes, wash immediately and thoroughly with water.
- If swallowed, seek medical advice immediately.
- Do not throw residues down the drain.

METHOD OF USE

It is advisable to carry out a series of tests on site to determine the best ratio; this will depend on the requirements of the castings and the surroundings. AERFLUX is added either directly to the water mix or into a mixer. If the inert material is particularly dry, it should be saturated with water to prevent it absorbing the additive.

Mix preparation



AERFLUX

TECHNICAL CHARACTERISTICS

Appearance	liquid
Colour	dark brown
Specific weight (volumetric mass) at +20°C	1.04±0.02 kg/litre
pH	12
Ford 4 Viscosity at +20°C	12 seconds
Solubility in water	total
Calcium chloride content	nil
Shelf life in original packaging	24 months



WATER BASED



KEEP AWAY FROM FROST

ADVANTAGES

- It gives a thixotropic effect, improving flexibility
- It improves the appearance of thin or poor concrete
- It provides excellent resistance to frost/thaw cycles
- It increases adhesion of the mix a reduction in superficial bleeding and separation of the components.

PRODUCT



PACKAGING

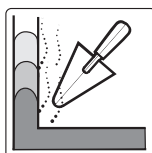
20 kg pails
5 kg cans.

index
Construction Systems

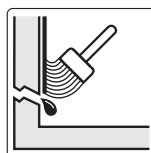
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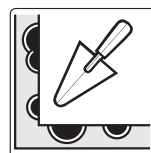
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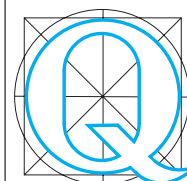
Restoration of damp masonry using damp-proofing renders



Waterproofing with vapour permeable cements



Concrete refurbishment



TOTAL QUALITY
Q.S. ISO 9001

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