AERFLUX

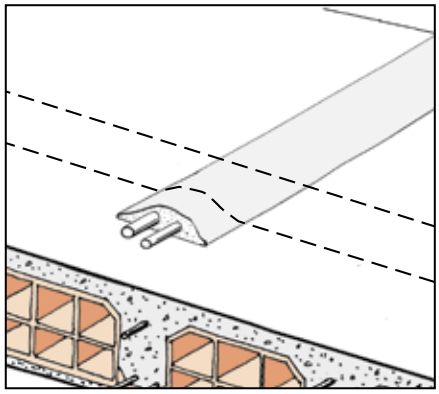
LIQUID AERATING-FLUIDIFYING AGENT FOR CONCRETE AND MORTAR. REDUCES THE DEGRADATION OF THE FREEZING/DEFROSTING CYCLE.

GRANTS *LEED* CREDITS

CHARACTERISTICS	ENVIRONMENTAL	METHOD OF USE	PRECAUTIONS
H_2O			
WATER BASED	ECO GREEN	MIX MECHANICALLY	STORAGE: KEEP AWAY FROM FROST

PROBLEM

IMPROVING THE PUMPABILITY AND RESISTANCE TO FROST OF MORTAR AND CONCRETE



In cement mixes, a controlled quantity of microscopic air bubbles improves both the characteristics of the product to frost-thaw cycles and the workability of the mixture.

SOLUTION

AERFLUX is an aerating additive for concrete and mortar based on air-entraining additives and surface-active substances with a specific fluidifying action. It is a brownish liquid which is completely water soluble.
AERFLUX is chloride free and does not affect the initial and final setting time of cement.
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 plastic effect.
AERFLUX improves the mix workability due to the effect of the fluidifying component action on the cement and on the very fine particles of the aggregate.

ACCORDING TO EUROPEAN NORMS
EN 934-2
ADDITIVES FOR CONCRETE

T5
AERATING ADDITIVE

APPLICATION FIELDS

AERFLUX is an additive recommended for preparing concrete suitable for the construction of road works in which the resistance to frost-thaw cycles and to the action of antifreeze salts is decisive.
AERFLUX is used in the production of concrete transported and site-cast by gravity, mass casting, pumped concrete or with lightweight aggregates. It is also used to correct the particle size of aggregates in the case of a lack of very fine elements.
In fresh concrete the entrapped air acts as a fictitious aggregate comparable to a very fine aggregate which does not require however a supplement of mix water.
AERFLUX is suitable for preparing mortar with high levels of workability and durability.

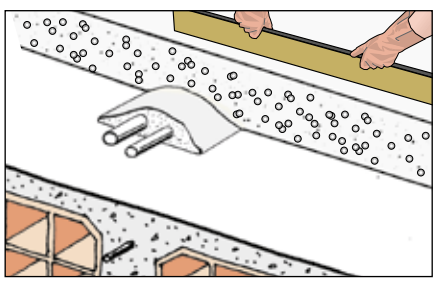
ADVANTAGES

- **Improves the plasticity and appearance of lean concrete or lacking in fine elements.**
- **It confers strong resistance to freeze and thaw cycles.**
- **Increases the cohesion of the mixture with reduction of the superficial bleeding and segregation of the components.**

METHOD OF USE

It is recommended to perform a series of tests on the site to determine the optimal dosage in relation to the casting and environmental requirements. **AERFLUX** is added with the water for the mix either directly or using automatic dosing equipment. Particularly dry aggregate should be wet with water first so as to prevent excessive absorption of the additive.

• COVERAGE
Thin concrete: 60-80 g×100 kg of cement (with less than 250 kg/m³ of cement).
Concrete: 40-60 g×100 kg of cement (with more 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 a fictitious 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 mix water 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.

TECHNICAL CHARACTERISTICS

	Standard	AERFLUX
Appearance		Liquid
Colour		Dark brown
Density	ISO 758	1.04 ± 0.02 kg/L
pH		12
Ford 4 viscosity - at +20°C		12 seconds
Solubility in water		Total
Storage in original packaging in a dry place, away from frost		24 months
Performance characteristics	**Standard**	**Product performance**
Class and type	**EN 934-2**	**T5**
Water reduction	**EN 12305-5**	10% ×0.25% Add
Air content in fresh concrete	**EN 12350-7**	10% ×0.25% Add
Compression strength	**EN 12390**	>40 N/mm²
Chloride content	**EN 480-10**	Absent
Resistance to corrosion	**EN 934-2**	Test passed
Thermal resistance - Working temperature		–30°C ÷ +90°C
Hazardous substances	**EN 934-2**	According note in ZA.1

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. **These data may change depending on specific site conditions: temperature, ventilation, moisture and substrate absorbency.**
(*) The times indicated will be longer or shorter as the temperature drops or rises.

PACKAGING

20-liters-Can
5-liters-Can

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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