

ALPHAFLOW VMA

Viscosity Modifying Admixture

Description

Alphaflow VMA is a liquid Acrylic Polymer Dispersion and is used to control the stability, segregation and water loss in highly fluid concretes. The fine particles start to work as soon as they are added to the concrete mix adding texture to the cement paste.

Applications

Alphaflow VMA is used in high workable concretes such as self compacting concrete, high workability concrete or where excess water needs to be absorbed. Due to its fine particle size Alphaflow VMA improves the aggregate grading and helps prevent segregation and bleeding, it will also improve the surface finish characteristics.

Benefits in Concrete

- Improves cohesion
- Reduces pump pressures
- Reduces segregation
- Reduces porosity
- Corrects gap grading issues
- Improves surface finish

Properties

Nature	Liquid
Colour	Milky White
Specific Gravity	1.00 g/cm ³
pH	4.5
Chloride Content	<0.10%
Na ₂ O equivalent	<1.00%

Addition Rates

Dosage rates vary dependant on mix design, process, aggregate type and the desired effect but typically:

250 mls - 2000 mls per 100 kg cement
(0.25% - 2.00% by weight of cement)

The correct dosage for the material package used should be determined by laboratory trials, please contact the OSCRETE Technical department for further advice.

Standards

Alphaflow VMA conforms to the requirements of BSEN 934-2 and is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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Compatibility

Alphaflow VMA is compatible with all types of EN 197 cement systems.

Alphaflow VMA should not be pre-mixed with other admixtures and should be batched separately.

Storage

Alphaflow VMA is very sensitive to frost, after the impact of temperatures around freezing point irreversible changes occur. Store in cool and dry condition in tightly closed containers. Opened containers have to be re-closed very tightly and protected from extreme temperatures. **Alphaflow VMA** has a shelf life of 12 months.

Handling

Please refer to the **Alphaflow VMA** Material Safety Data Sheet but in line with normal handling procedures, personal protective equipment should be worn.

Packaging

200 litre drums, 1000 litre IBCs and bulk deliveries.

Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

Notes

Alphaflow VMA should be added at the end of the mixing process and not directly onto the cement. A mixing time of at least 120 seconds is recommended after the addition of the admixture.

Please consult the OSCRETE Technical Department for advice on admixture selection.

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