

ALPHAMENT®

Product Properties:

ALPHAMENT products are calcium carbonates in powder form based on natural, very pure reef lime, which was formed millenniums ago. **ALPHAMENT** has a perfect grain distribution as well as an optimal grain structure to improve the processing of concrete. **ALPHAMENT** products react as activator in concrete mixtures by improving the technological performance, the mechanical properties and the surface of formulated concrete. **ALPHAMENT** products are used in all concrete applications ranging from very simple to highly sophisticated concrete. **ALPHAMENT** products are used at precast and ready mix concrete plants but also at concrete building sites.

CO₂- emission reduction by calcium carbonate

Key Benefits at a glance:

- Benefits by lower water / cement ratio
- Reduces cement amount in concrete
- Reduces concrete deformation risk
- Increases 24-hours-strength
- Improves workability of concrete
- Widens spectrum of concrete types
- Useful for precast and ready mix
- Green contribution to coal phase-out



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ALPHAMENT®

Introduction:

ALPHAMENT is a finely divided and dried calcium carbonate. It is the finest constituent of the concrete aggregates and improves the mechanical, rheological and aesthetical performance of finished products. **ALPHAMENT** accelerates the formation of the main hydrated components of cement due to optimized porosity. Fly ash can be exchanged partly or even completely by **ALPHAMENT**. The natural color contributes positively to the final color of the concrete. **ALPHAMENT** acts as a catalyst for mechanical resistance at short periods (< 7 days) for mixtures but does not act as a source of silica to react with part of the hydrated cement and develops resistance at 28 days or longer (non pozzolanic effect).

Chemical and Physical Data:

Product	Sieve residue >90 µm [%]	Whiteness Ry	Spec. surface Blaine [m ² /g]	Moisture [%]	Bulk density (untamped) [g/ml]
ALPHAMENT 10 KA	0	85	0.4	< 0.2	0.9
ALPHAMENT 300 IN	5	77	0.5	< 0.2	1.0
ALPHAMENT 330 IN	10	75	0.5	< 0.2	1.1
ALPHAMENT 902 E	2	50	0.5	< 0.2	1.0
ALPHAMENT 905 E	5	50	0.4	< 0.2	1.0
ALPHAMENT 910 BN	10	60	0.4	< 0.2	1.0
ALPHAMENT 915 E	15	50	0.3	< 0.2	1.1

Application examples*:

Dry concrete:

- Applications: breeze-blocks, borders and pipes
- Optimized as granulometric corrector

Plastic and additive concretes:

- Applications: paving stones, pits, gutters, beams
- Recommended for CAM I classes 42.5 or above

Liquid and technical concretes:

- Applications: self-compacting concrete, small architecture items
- Optimisation of granulometry and viscosity



*Basic formulations are presented in technical notes. Construction information – 11/18 Ed. 1

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