

OMEGA+[®]

Silica Fume Gel



RAMKA
CONSTRUCTION
CHEMICALS

OMEGA+[®] combines a polycarboxylate-based superplasticizer, silica-fume pozzolan and other constituents to improve concrete rheology, cohesion, durability and density. It also increases compressive, tensile, flexural and impact strength.

Guideline for Use

OMEGA+ may be added after the concrete has been fully mixed. For better dispersion and performance, blend it with part or all of the mixing water and add it during mixing.

Dosage

Normally 3 to 6% by weight of cement. The exact dosage depends on project requirements and site trials; a higher dosage may be required for extremely low permeability.

Applications

- High-strength concrete (HSC)
- Low-permeability concrete resistant to aggressive ions
- Heavy-traffic routes
- Water-retaining structures
- Structures exposed to freeze-thaw cycles
- Bridges, power plants, runways, ports and tunnels

Approvals / Standards

- ASTM C1202
- BS 1881-122
- INSO 2930
- BS EN 12390-8

Advantages / Benefits

- Silica fume forms additional C-S-H through reaction with lime
- Improves fresh-concrete cohesion and fills internal voids
- Improves strength and durability
- Increases fresh-concrete workability
- Facilitates pumping and reduces equipment wear
- Helps prevent thermal and shrinkage cracking
- Increases compressive and abrasion resistance

Storage

+10°C to +30°C; store in dry conditions away from direct sunlight.

Packaging

22 kg pail

Shelf Life

1 year from the date of production in the original packaging.

Health and Safety

- Do not swallow and avoid contact with the eyes.
- In case of accidental contact with the skin or eyes, rinse immediately with plenty of fresh water.
- If swallowed, seek immediate medical attention.
- Refer to the Material Safety Data Sheet (MSDS).
- Non-flammable.

Basis Of Data

Product Information

chemical_base	Polycarboxylate ether
density	1.45±0.05 g/cm ³
chloride_ion	None



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