



MA SP1C

High range water-reducing concrete admixture



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HIGH RANGE WATER-REDUCING CONCRETE ADMIXTURE

I. DESCRIPTION:

MA SP1C is a high-performance superplasticizer used to produce highly flowable concrete with significant water reduction, enabling high early and ultimate compressive strength.

MA SP1C complies with ASTM C494 Type F standards.

II. USES:

MA SP1C is used as a high-range water-reducing and superplasticizing admixture for flowable concrete in:

- Floor slabs and foundations.
- Walls, columns, and bridge piers.
- Thin structural elements with dense reinforcement.
- Precast and prestressed concrete components.
- Bridges and cantilever structures.

III. ADVANTAGES:

- Greatly improved workability
- Better concrete placement for thin elements with dense reinforcement
- Less effort required for compaction
- Normal setting time without delay
- Minimizes the risk of segregation.
- Enables optimized cement usage compared to conventional concrete mixes.

IV. PRODUCT INFORMATION:

Data	MA SP1C
Base	Naphthalene sulfonate formaldehyde
Appearance	Dark brown liquid
Density	1.20 ± 0.05 kg/liter
Dosage	0.6–2.0 liters per 100 kg of cement Typical: 0.8–1.2 liters per 100 kg of cement
Packing	5 / 25 / 200-liter drums
Shelf life	24 months (in unopened packaging)
Storage conditions	Dry, cool, shaded place

V. APPLICATION:

Mixing:

- **MA SP1C** should be added into pre-measured mixing water before incorporating it into the dry concrete mix.
- Alternatively, it may be added separately into freshly mixed wet concrete. In this case, mix the concrete for an additional minimum of 1 minute per cubic meter to ensure even dispersion.
- For best plasticizing effect, add the product directly into freshly mixed concrete.

When added on-site, the admixture should be introduced just before placing and followed by at least 3 minutes of mixing.

VI. ECOLOGY, HEALTH AND SAFETY:

PPE: Wear appropriate protective clothing, goggles, and gloves when handling the product. May cause irritation or allergic reactions upon contact with eyes, skin, or mucous membranes.

Ecology: Do not dispose into water sources or soil.

Transportation: Non-hazardous.

Refer to the Material Safety Data Sheet (MSDS) and other relevant safety documentation.



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