

MA SPR4

High range water-reducing and set
retarding concrete admixture



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HIGH RANGE WATER-REDUCING AND SET RETARDING CONCRETE ADMIXTURE

I. DESCRIPTION:

MA SPR4 is a high-performance superplasticizer with set-retarding properties, designed for concrete production under hot weather conditions. It acts as a high-range water reducer, enhancing the ultimate compressive strength of concrete.

MA SPR4 complies with ASTM C494 Type D & G standards.

II. USES:

MA SPR4 is mainly suitable for concrete production in ready-mix plants and on-site batching stations. It can be used for the following types of concrete:

- Concrete transported over long distances.
- Road and pavement concrete.
- Slipform concrete.
- Thin structural elements with dense reinforcement.
- Foundations, floor slabs, walls, columns, beams, and girders.

III. ADVANTAGES:

High plasticizing efficiency

- Without increasing the water/cement ratio or risk of segregation.
- Long-lasting slump retention for consistent workability.
- No negative impact on the ultimate compressive strength.

High-performance water-reducing admixture

- Increases concrete strength, helps reduce the amount of cement used.
- Suitable for use in hot weather.

- Does not increase air entrainment.
- Reduces shrinkage.
- Improves surface finish.
- Enhances water resistance.

IV. PRODUCT INFORMATION:

Data	MA SPR4
Base	Lignosulfonat
Apperance	Liquid
Color	Dark brown
Density	1.15 ± 0.05 kg/litre
Chloride content	None
Dosage	0.6–2.0 liters per 100 kg of cement Typical: 0.8–1.2 liters per 100 kg of cement
Cement compatibility	Compatible with all types of Portland cement
Packaging	5 / 25 / 200 liter drums
Shelf life	24 months (in unopened packaging)
Storage conditions	Very good
Working temperature	Dry, cool, shaded place

V. APPLICATION:

Dosing and Mixing:

- **MA SPR4** can be added to the gauged water before mixing into dry concrete, or directly into freshly mixed concrete. For optimal plasticizing performance, direct addition into freshly mixed concrete is recommended.

- A minimum mixing time of 60 seconds is recommended for proper dispersion.
- If additional water is required to adjust workability, it should be added only after at least two-thirds of the total mixing time to avoid excess free water in the concrete.
- Use suitable mechanical mixing equipment only. Hand mixing is not allowed.

Concrete Placement:

- With the use of **MA SPR4**, high-quality concrete can be achieved. However, standard concrete procedures – mixing, placing, compaction, and curing – must be properly followed.

Curing:

- Effective curing methods must be applied to ensure proper concrete performance.

Overdosing:

- Significant overdosing may increase workability and extend the setting time. However, if curing is properly carried out, the final strength and concrete properties will not be affected.
- Due to the extended setting time, proper curing must be ensured. Avoid disturbing the freshly placed concrete or touching the reinforcement during the setting phase.

VI. ECOLOGY, HEALTH AND SAFETY:

PPE: Wear suitable protective clothing, goggles and gloves when handling this product.

Ecology: Do not dispose into drains, water or soil.

Transportation: Non-hazardous.

Important notes:

Avoid contact with food and household utensils. Prolonged skin contact should be avoided. In case of skin contamination, rinse thoroughly with water. If the product comes into contact with the eyes or mouth, rinse immediately with clean water and seek medical attention.

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



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