

METRON

Concrete Power Plasticizer



RAMKA
CONSTRUCTION
CHEMICALS

METRON is a slump-retaining polycarboxylate-ether admixture for reducing the water-to-cement ratio and producing high-strength concrete. The approved source states that it initially increases flowability in a controlled manner and may continue increasing slump for up to 2 hours after loading into the truck mixer, depending on dosage, thereby limiting workability loss in hot weather.

Applications

- High-strength concrete production at the batching plant
- Transport in hot weather for up to 2 hours without slump loss
- Large-volume or prolonged concrete placements
- Increasing 3-day, 7-day and 28-day strength
- Reducing cement content and optimising the concrete mix design
- Placement in slabs, foundations, columns, walls and bridges

Advantages / Benefits

- High slump-retention capacity
- Extended concrete workability
- Easier pumping and reduced equipment wear
- Improved concrete cohesion and viscosity
- Reduced permeability
- Slump retention without a stated delay in compressive-strength development
- Reduced risk of cold joints during prolonged placement

Approvals / Standards

- ASTM C1017 Type II
- ASTM C494 Type G
- ACI 212.3R-16
- INSO 2930

Directions for Use

Use METRON at the concrete production plant. Its delayed-action polycarboxylate mechanism is intended to retain flowability during transport. The approved source recommends batching-plant addition under controlled mixing conditions and advises against manual or delayed addition at the job site.

Dosage

0.6 to 1.6% by weight of cement. Depending on the concrete mix design, a higher dosage may provide longer slump retention.

Compatibility

Not specified in the approved source.

Product Information

Property	Approved value
Chemical base	Polycarboxylate ether
Physical state / color	Liquid / colorless and translucent
Density	1.10 ± 0.05 g/cm ³
pH	3-7
Chloride ion content	None

Packaging

20 kg can / 1,100 kg tank

Storage

+10°C to +30°C, in dry conditions and away from direct sunlight

Shelf Life

One year from production in the original packaging

Health and Safety

- Do not swallow and avoid contact with the eyes.
- In case of accidental skin or eye contact, rinse immediately with plenty of fresh water.
- Non-flammable.

Source Control Note

Translated from the approved Persian 1404.12.04 master.