



Technical Data Sheet

REMICRETE-SP35

High performance, high-range water-reducing concrete admixture with workability retention

Description:

REMICRETE-SP35 is a high performance, high-range water-reducing concrete admixture for tropical conditions & hot concreting. It is formulated to produce high concrete properties with extended workability to enable long distance transportation of concrete in difficult conditions. It is based on the third generation high performance sodium Polycarboxylate ether polymers that well disperse cement particles that tend to agglomerate, enabling the mixing water to perform more efficiently and contains materials that produce high early strength concrete.

Primary Uses:

REMICRETE-SP35 is formulated to be used as high range water-reducing concrete admixtures with extended workability in hot climates for:

- Ready mixed concrete
- Precast and prestressed concrete
- High strength floor screed without any risk of segregation or bleeding
- Hot weather concreting
- Self – compacting concrete
- Ready mix concrete
- Bridges, ceilings, beams, floorings, etc.
- Where the need to transport the concrete for long distance in hot weather

Advantages:

- Excellent water reduction up to 35 %
- Enables cement saving
- Excellent self-compacting behaviour
- Improves early strengths
- Eliminates the risk of segregation, bleeding and creep
- Increases mix cohesion
- Improves durability and reduces permeability
- Reduces rate of concrete carbonation
- Improves surface finish
- Water-based: non-flammable, non-toxic and does not contain any harmful ingredients
- Chloride and nitrate free
- Formulated for the Middle East conditions

Standards:

REMICRETE-SP35 is formulated as high range water reducing chemical admixture for concrete to comply with all requirements of ASTM C-494 Type F, ASTM C-1017 and EN 934 Part 2, Tables 1, 11.1 and 11.2

Technical Properties:

Appearance:	Light liquid
Specific Gravity:	1.07 – 1.09 at +20 °C
Air entrainment:	0.5% additional air
Chloride Content:	Nil
Setting Times:	Setting times will not be affected at the recommended dosage
Permeability:	Waterproofing properties will be improved, so the resistance of water & water-born salts will be increased
Water-reduction:	25 - 35 of mixing water can be reduced. The durability will be also increased.
Compatibility:	REMICRETE-SP35 is compatible with all types of Portland cements including Sulphate resisting Cement. It is compatible with all types of our admixtures, but each should be added separately.
Cohesion:	The cohesion of the matrix will be increased.
Mechanical Properties:	All the mechanical properties: compressive strength at early & ultimate strengths, flexural strengths, tensile strength will be improved.

Guide for Applications

Dosage:

The dosage will be influenced with the mix design, cement content & type, quality of used materials, ambient temperatures and the specific requirements, so site trials should be carried out to determine the accurate dosage. Approximately, the dosage is 0.5 – 2 % by the weight of cement.

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Dispensing:

The accurate quantity should be measured by means of a suitable dispenser.

Normally, REMICRETE-SP35 should be added to the concrete with the mixing water to achieve the best results. It should not be added directly to the dry cement or aggregate, it should be always added to the wet mix conditions.

Curing:

The concrete after placing should be cured properly by suitable means. REMICURE range can be used for this purpose.

Cleaning:

Clean the tools & equipment or spillages with normal water.

Packaging:

REMICRETE-SP35 is supplied in 20 liters, 210 liters, and 1000 liters upon request.

Storage:

REMICRETE-SP35 shall be stored in normal conditions away from any extreme temperatures and away from direct sunlight.

Shelf-life:

REMICRETE-SP35 is valid for use for a period 18 months from the date of production and under proper storage.

Health and Safety:

- REMICRETE-SP35 is water-based, non-flammable, non-toxic, and does not contain any harmful ingredients.
- Any contamination of skin can be removed with normal water.
- For disposal follow the local regulations.