

REMICRETE[®]-G1000

RETARDING, HIGH-RANGE, WATER-REDUCING, SUPERPLASTICIZING CONCRETE ADMIXTURE

Product Description:

REMICRETE[®]-G1000 is a retarding, high-range, water-reducing, superplasticizing concrete admixture. REMICRETE[®]-G1000 is formulated to produce high-quality concrete in hot climates with excellent following properties whilst increasing retardation and extending transportation times. Once incorporated in the mix, REMICRETE[®]-G1000 is absorbed on the cement particles surface inducing a powerful deflocculating property, effectively reducing mixing water demand and improving both physical and mechanical properties of the resultant concrete. REMICRETE[®]-G1000 is based on a selection of synthetic polymers.

Primary Uses:

REMICRETE[®]-G1000 is typically used in high climates to produce:

- Precast concrete.
- Ready mix concrete.
- Slabs, basements and foundations.
- Walls, columns and piers.
- Bridges and related structures.
- Easy to finish concrete slabs.
- Mass concrete.
- Slip-form concrete.

Advantages:

- Reduces effectively the mixing water.
- Improves workability, placing and pumping properties.
- Reduces compaction time.

- Enable long transportation times.
- Can be used to save cement.
- Improves physical and mechanical properties.
- Improves surface finishes.
- Improved cohesion minimizes risks of segregation bleeding and creep.
- Provides highly dense concrete which improves the waterproofing properties and protection of reinforcement steel against detrimental water-borne ion attacks.
- Water-based, non-flammable, non-toxic, chloride-free and non-corrosive.
- Formulated to be suitable for the Middle East region conditions.

Standards:

REMICRETE[®]-G1000 complies with all requirements ASTM C-494 Type G as well as with all requirements of EN943 Part 2 tables: 1, 11.1 and 11.2.

Technical Properties:

Appearance	: dark brown liquid.
Specific gravity	: 1.20 ± 0.005 @ 20°C.
Air-entrainment	: less than 1% additional air is entrained.
Water-reduction	: 25% of mixing water can be reduced.
Setting times	: initial and final setting time are extended, compared to the control and based on dosage,

Permeability	: cement type, mix design, ambient temperature and RH. : reduces concrete porosity improves waterproofing and durability.
Compressive strength	: Increased early and ultimate compressive strengths.
Cohesion	: improved cohesion reduces risk of segregation.
Compatibility	: Compatible with all types of Portland cement with Sulfate Resisting Cement (SRC). Compatible with other SCHOMBURG admixtures when dispensed separately

Dosage Range:

Dosage is influenced by cement type, mix design, and quality of used materials. For ambient temperatures and other specific requirements, site trials should be carried out for the determination of suitable dosage. Dosage: typically, 0.50-2.0% by weight of total cementitious content (0.42-1.67 litre for each 100 kg of cement).

Dispensing:

REMICRETE®-G1000 should be added with the last third of mixing water or immediately after complete mixing water addition. Do not add directly to the dry mix or cement. For proper administration an automatic dispenser shall be used.

Overdosing:

An overdose of REMICRETE®-G1000 may result- depending on dosage- in an increase of workability and extension of setting time. Overdosed concrete must be protected against sunlight & water evaporation.

Curing:

Concrete should be cured in accordance with the applicable European Norms or ACI recommendations. Alternatively, use any of the Aquafin Pakistan curing agents' range; REMICURE.

Cleaning:

Dispensers, hoses, equipment and tools can be easily cleaned with water. Spills must be contained and removed from industrial waste in accordance with local environmental laws. Please always consult local legislative authorities.

Packaging:

REMICRETE®-G1000 is supplied in 20, 210 and 1000 litres.

Storage:

REMICRETE®-G1000 has a shelf life of 12 months in the original unopened packaging in a dry and frost-free environment above 5°C.

Health and Safety:

REMICRETE®-G1000 is a 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. For any details for safety requirements please refer to the product's MSDS.