



CONCET HR PRO

HIGH-WATER REDUCING & Retarding Admixture

HIGH RANGE WATER REDUCING ADMIXTURE

DESCRIPTION

CONCET HR PRO high-range water-reducing admixture employs the latest advancements in polycarboxylate technology and is formulated to meet the demands of the precast/pre-stressed concrete industry. It maximizes cement efficiency, maintains consistent air contents, and has excellent set/strength gain characteristics. It also improves concrete flow, finishing, and formed surface appearance. It provides compressive and flexural strength gains that can lower cement requirements and extend the use of supplementary cementitious materials. It contains no added chlorides or chemicals known to promote the corrosion of steel.

PRIMARY APPLICATIONS

- Precast/pre-stressed concrete
- Self-consolidating concrete (SCC)
- High slump, flowable concrete
- Low water to cement ratio concrete
- High early strength concrete
- Ready-mix concrete
- Flatwork and mass concrete
- Pervious concrete

FEATURES/BENEFITS

Plastic Concrete

- Improves finishability
- Improves workability
- Reduces water requirement
- Improves setting times
- Superior slump retention
- Consistent control of air content

- Improved cement hydration
- Low dosage, high efficiency
- Higher early and ultimate strengths
- Lowers number of rejected concrete loads
- Quicker stripping times
- Aids in concrete placement and reduces labor cost
- Improved finishability

Hardened Concrete

- Increases early and late age strengths
- Reduces permeability
- Increases durability

TECHNICAL INFORMATION

Appearance:	Brown colour liquid
Base:	Polycarboxylate Ether
Specific gravity:	1.12 ± 0.02
Air content	<1%
pH value:	Minimum 6
Chloride content (%):	Nil
Storage:	Under shade
Shelf life:	12 months

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MASTER FORMAT #:

PACKAGING

CONCET HR PRO is packaged in bulk, 230KG OR 250KG HDPE Barrel.

SHELF LIFE

11 months in original, unopened container.

SPECIFICATIONS/COMPLIANCES

CONCET HR PRO meets or exceeds the requirements of:

- ASTM C 494, Type A and Type G

DIRECTIONS FOR USE

Concrete admixture is added to the concrete after addition of desired amount of water during mixing of concrete in mixer.

DOSAGE/USAGE

Generally dosed in the range of 0.5 to 1.0% by weight of cementitious materials. But go for trial mix for finalizing the dosages.

Various types and higher grades of concrete more than M 45.

Best admixture for SCC and High early strength concrete
good for PQC and Pre Cast purposes

Higher dosages are acceptable with prior testing and confirmation of the desired performance with specific materials being used.

CONCET HR PRO should be added to the initial batch water when possible. It should not come in contact with dry cement or other admixtures until mixed thoroughly with the concrete batch.

Field testing is strongly recommended to optimize dose range and performance expectations with local materials.

CONCET HR PRO is compatible with most admixtures including air-entraining agents, accelerators, most water-reducers, retarders, shrinkage reducers, corrosion inhibitors, viscosity modifiers, and microsilica; however, each material should be added to the concrete separately.

PRECAUTIONS/LIMITATIONS

- Care should be taken to maintain CONCET HR PRO above freezing.
- Never agitate with air.
- Add to concrete mix independent of other admixtures.
- In all cases, consult the Safety Data Sheet before use.
- CONCET HR PRO should not be added in dry mixes under any circumstances if used for cement reduction without loss in strength, the dose Of CONCET HR PRO depends on mix design.

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