KREVO Mix Superplast

High-range water-reducing superplasticizer and retarder | Slump retention | High-quality concrete

PRODUCT DESCRIPTION

KREVO Mix Superplast is a liquid, organic polymer-based concrete admixture designed to provide high-range water reduction and improved flow. It supports the production of workable, high-quality concrete with extended slump retention under demanding placing and hot-weather conditions. It can be used to reduce mixing water while maintaining the required consistency, with potential improvements in early and ultimate strength.

ADVANTAGES

- Significantly increases workability without additional mixing water.
- Helps retain slump during transportation and concrete placement.
- Can achieve up to 25% water reduction in a suitably designed mix.
- Supports improved early strength, surface finish and water tightness.
- Suitable for demanding hot-climate concreting with controlled air entrainment.

TYPICAL USES

Ready-mix concrete • High-workability and flowing mixes • Concrete in hot climates • Difficult placing conditions • Pumped and heavily reinforced concrete • Quality structural concrete requiring slump retention and a reduced water/cement ratio

PRODUCT INFORMATION

PARAMETER	SPECIFICATION
Generic type	High-range water-reducing superplasticizer and retarder
Chemical base	Organic polymer blend
Appearance / colour	Brown liquid
Specific gravity / pH	1.19 ± 0.03 / pH ≥ 6
Total chloride ion	≤ 0.2% (EN 934-2 test reference)
Packaging	5 L, 20 L, 200 L, 1,000 L IBC; bulk delivery option
Shelf life	12 months minimum in properly stored original packaging
Storage conditions	Sealed, dry, +5 °C to +35 °C; avoid sun and frost

TECHNICAL & APPLICATION PROPERTIES

PARAMETER / TEST	TYPICAL VALUE / GUIDANCE
Recommended dosage	0.6–2.0% by weight of cement; trial mix required
Water reduction	Up to 25% with suitable concrete mix design
Superplasticizing effect	Higher flow and workability without added water
Slump retention	Extended workability during transport and placing
Strength development	Can improve early and ultimate strength with reduced water
Dispensing	Into mixing water or separately into freshly mixed concrete
Additional mixing	At least 1 minute per m^3 after post-batch addition
Reference standards	ASTM C494 Type G; EN 934-2 — compliance to be verified

Application & Mixing Guidance

KREVO Mix Superplast | Dosage, mixing sequence, workability and concrete quality

WATER REDUCTION & WORKABILITY CONTROL

CONTROL ITEM	TYPICAL TARGET	CHECK METHOD	ACTION
Admixture dose	0.6–2.0% cement	Batch calculation	Confirm trials
Water reduction	Up to 25%	Control mix	Approve results
Slump retention	As specified	Time-slump check	Adjust dosage
Mix dispersion	≥1 min / m^3*	Batch record	Verify mixing
Setting / air	Within limits	Trial results	Check effect

The admixture can be used either to increase flow at a constant water content or to reduce mixing water while maintaining the target workability. Select dosage for the required slump retention, setting behaviour, concrete strength and site temperature. Do not substitute additional mixing water for properly designed admixture dosage.

TYPICAL DOSAGE & PLACING CONTROLS

STAGE	PROCEDURE / GUIDANCE
1 | Mix design	Set strength, slump, cement content and water-reduction performance criteria.
2 | Dosage trials	Begin at 0.6–2.0% of cement mass; refine from representative trial batches.
3 | Dispensing	Introduce into mixing water or separately into freshly mixed concrete.
4 | Mixing / QC	For post-batch addition, mix ≥1 min per m^3; verify uniformity and slump.
5 | Placement	Monitor set, place and compact; cure promptly and verify strength results.

CEMENT & ADMIXTURE COMPATIBILITY

The admixture can be considered for ordinary Portland cement and sulphate-resistant cement mixes. When using supplementary cementitious materials, pumping aids, air-entraining agents, corrosion inhibitors or other chemical admixtures, conduct compatibility and setting-time trials. Add admixtures separately unless compatibility has been established.

DOSAGE, DISPENSING & MIXING

The reference addition range is 0.6–2.0% by mass of cement. The appropriate dosage depends on cement characteristics, water content, desired slump, delivery time and temperature. Carry out trial mixes at the proposed production dosage to check workability, setting, strength and air content.

INSTALLATION CONTROL	REQUIREMENT / GUIDANCE
Dosage / approval	0.6–2.0% by cement mass, subject to successful mix-design trials.
Liquid properties	Organic polymer blend, brown; SG 1.19 ± 0.03 and pH ≥6.
Water reduction	Up to 25% reported for suitable mixes; confirm in project trials.
Dispensing / mixing	With mixing water or separately; post-batch mixing ≥1 min per m^3.
Storage / shelf life	Original sealed packaging at +5 °C to +35 °C; 12 months.

Introduce KREVO Mix Superplast separately into freshly mixed concrete, or add it to the mixing water before combining with aggregates. If added to freshly mixed concrete, provide additional mixing for at least one minute per cubic metre to distribute the admixture uniformly. Follow project batching requirements and approved mixing procedures.

HOT-WEATHER CONCRETING & CURING

Control aggregate and concrete temperature, water content, batching sequence and transport time. Monitor slump and potential setting retardation during hot weather. Place and compact concrete without segregation, and cure immediately using the approved method. Trial batches should confirm the required workability and strength development.

Installation & Product Support

KREVO Mix Superplast | Dosing procedure, quality checks, limitations and safety

BATCHING & MIXING PROCEDURE

- Confirm cement content, target slump, setting time and approved mix design.
- Calculate admixture dosage at 0.6–2.0% of cement mass, subject to trials.
- Add to mixing water or dose separately into wet concrete using controlled equipment.
- Mix thoroughly and test slump, air, setting and strength against the control mix.

PLACEMENT & QUALITY CHECKS

- Record the batch quantity, cement mass, admixture dose and concrete temperature.
- Check slump on dispatch and arrival to verify the specified retention period.
- Place and compact without adding uncontrolled water at the point of discharge.
- Cure concrete properly and check early and ultimate strength as specified.

LIMITATIONS & SERVICE NOTES

- Do not assume the same dosage will suit all cement types or binder blends.
- The maximum water-reduction effect depends on the concrete mix and trials.
- Check the setting response when high dosage or high ambient temperature is involved.
- Avoid unintended admixture interactions; establish compatibility by trials.
- Protect stored liquid from sunlight and freezing, and keep containers sealed.

HEALTH, SAFETY & ENVIRONMENT

Wear appropriate gloves, eye protection and worksite PPE during dispensing and handling. Avoid skin or eye contact and uncontrolled release into drains. Use safe lifting and spill-control procedures for containers and bulk deliveries. Consult the current product Safety Data Sheet and applicable local disposal requirements.

QUALITY & PRODUCT INFORMATION

Water reduction, slump retention and strength development are influenced by cement chemistry, binder content, admixture dose, water/cement ratio, temperature and curing. Confirm KREVO batch documentation and product-specific test results before asserting standards compliance or guaranteed performance for project approval.

KREVO | GLOBAL CONTACTS

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