

Technical Datasheet

X-Mix RS

Set Retarding/Water Reducing/Plasticizing Admixtures.

Product Description

X-Mix RS is high performance, plasticizing retarder concrete admixture, manufactured from selected polymers specially designed to impart a fluid concrete easily flowing and maintaining workability especially in hot climatic conditions.

X-Mix RS is suitable for use with all types of ordinary Portland cements, sulfate resisting Portland cement and pozzolanic materials. This product is suitable for tropical and hot climatic conditions.

Advantages

- Improved workability without increased water content.
- Improved workability retention.
- Improved trowel ability.
- Improved surface finish.
- Enhances durability.
- Minimizes bleeding and segregation.
- Non-toxic.
- Chloride free.

Uses

X-Mix RS is suitable for use in:

• Ready-mixed concrete where high workability retention and retardation are of prime importance.

• To improve cohesion, workability and compatibility in concretes using poorly graded/shaped fine aggregates. The product improves the effectiveness of the water content of a concrete mix by reducing surface tension. It

is particularly suitable wherever high quality concrete is demanded under difficult placing and climatic conditions.

Specification Compliance

- EN 934-2 T10.
- ASTM C 494: Type D & G.
- EN 480-10.
- EN 480-12.
- ASTM D 2111.

Packaging

20 liter jerkins, 210 liter drums, 1000 liters Bulk Tanks.

Product Properties

Consistency	Liquid
Color	Dark brown
Specific Gravity according to ASTM D 2111 (g/cm ³) @25° C	1.170±0.01
Р ^н	>6
Main action	Water reduction & Retarding of initial hydration; retention of workability.
Collateral action	Set retarding/water reducing/plasticizing admixtures
Classification according to EN 934-2	For set retarding/water reducing/plasticizing admixtures, T10
Classification according to ASTM C494	Type D & TYPE G
Water reduction	≥5 % according to EN 934-2
Chlorides soluble in water according to EN 480-10 (%)	\leq 0.1 (absent according to EN 934-1)
Alkali content (Na ₂ O equivalent) according to EN 480-12 (%)	< 55 g
Nitrate content	Nil

Shelf Life

X-Mix RS has a minimum shelf life of 12 months under shaded area. Must be protected from direct sunlight and frost.

Dosage

Dosage is 0.2 - 1.5 liter/100kg of cement, including any pozzolanic materials and cement replacements.

The actual dosage rates and water reduction rate are dependent on the :

- 1- Cement rate in mix design.
- 2- Quality of cement & aggregates.
- 3- Water/Cement-ratio.
- 4- Ambient temperature (Weather).

Dosages outside this range can be used to produce particular mix requirements, provided that extensive trial mixes and laboratory have been conducted.

Dispensing

X-Mix RS should be added to the concrete while being mixed using a suitable dispenser. Add to the concrete with the mixing water to obtain best results.

Overdosing

When accidental overdosing occurs will result in:

- Increase in workability.
- Initial and final set retarding.
- Increase in air-entrainment.

APPLICATION PROCEDURE

add X-Mix RS into the mixer after the other ingredients (water, cement, aggregates). X-Mix RS is most effective if added when cement and aggregate granules are already wet, and least effective when the admixture is mixed with dry solids which partially absorb it (especially if porous). It is advisable to begin adding the admixture with an automatic dispenser after adding at least, half of the batching water required.

Compatibility

X-Mix RS is compatible with a wide range of admixtures used in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The resultant properties of concrete containing more than one admixture should be assessed by trial mixes.

Clean Up

Clean up spillages of by absorbing onto sand and transferring to suitable containers. Any residue should be washed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local regulations.

Health and Safety

This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website www.ncc.com.eg.

Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Specialists ('ATSsO are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit www.ncc.com.eg for a full list of NCC X-Calibur ATSs.

Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on www.ncc.com.eg to ensure you have the latest version.

Warranties

NCC X-Calibur supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price.

NCC X-Calibur does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction makes Chemistry Inc. no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied. NCC X-Calibur Construction Chemistry Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.



CONSTRUCTION CHEMIST 233 indystrial zone, New Cairo, Cairo, Egypt. Quality Statement

All Products manufactured by NCC X-CALIBUR or imported from X-CALIBUR companies world-wide are manufactured to procedures certified to conform the quality, environment, systems described in the ISO 14001:2004. ISO 9001:2000.



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