

MONOCRETE 360N



High range concrete superplasticiser with slump retention admixture

DESCRIPTION

MONOCRETE 360N is a superior grade naphthalene based superplasticiser designed for high performance concrete mixes in extreme weather conditions.

This effect can be used to improve workability and to increase ultimate strengths by the very high levels of water reduction in the concrete mix.

USES

Monocrete 360N is specially recommended for concrete designed with durability criteria, containing GGBS, micro silica, fly ash, etc and low water to binder ratios. It is used for pumpable concrete with greater time duration of slump retention requirements. It is extremely useful in concrete for piling, congested reinforcement, high rise towers, and mass concrete with temperature control for raft foundations etc.

APPLICATIONS

- To increase workability retention of fresh concrete.
- To provide increased ultimate strength by reducing water demand in concrete mixes.
- To produce high quality concrete of improved durability by reducing permeability.

ADVANTAGES

- Higher strength with same cement content.
- Minimising segregation problems by improving cohesion.
- Improved workability reduces placing and compaction problems.
- Cement saving without affecting strength.
- More durable concrete as a result of reduction in permeability and lower water to cement ratio.
- Chloride free.

COMPATIBILITY

MONOCRETE 360N is suitable for use with all types of Portland cement and cement replacement materials.

MONOCRETE 360N is compatible with other STARKE's admixtures used in the same concrete mix.

If more than one type of admixture is to be used in the concrete mix, they must be dispensed into the mix separately.

STANDARDS

Monocrete 360N complies with ASTM C494, EN 934-2 and BS5075 PART3, Types F and G, depending on dosage used.

TECHNICAL PROPERTIES @ 25°C:

Starke provides a technical Advisory service for on-site assistance.

Colour: Brown liquid

Freezing point: $\approx -2^{\circ}\text{C}$

Specific gravity: 1.17 - 1.22

Chloride content: BS 5075 Nil

Air entrainment: Typically less than 2% additional air is entrained above control mix at normal dosages

METHOD OF USE

Monocrete 360N should be added to the concrete with the mixing water to achieve optimum performance.

An automatic dispenser should be used to dispense the correct quantity of **Monocrete 360N** to the concrete mix.

DOSAGE

The recommended dosage of **Monocrete 360N** is 0.80 - 2.00 litre per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of **Monocrete 360N** to meet the performance requirements by using the materials and conditions in actual use.

EFFECTS OF OVERDOSAGE

Overdosage of **Monocrete 360N** will cause the following:

- Significant increase in retardation.
- Increase in workability.

- Ultimate concrete strength will not be adversely affected and will generally be increased provided that proper concrete curing is maintained.

SETTING TIME

Although the setting time is dependent on the dosage of Monocrete 360N, the following factors should be considered:

- Retardation is increased with lower levels of tri-calcium in the cement.
- Lower temperatures will delay the setting time.
- SRC cement gives higher retardation level than ordinary cement.
- Using more than one type of admixture in the same concrete mix could affect the setting time.
- Retardation level is increased when cement replacement materials are used in the concrete mix.

CLEANING

Clean of **monocrete 360N** with fresh cold water.

PACKAGING

MONOCRETE 360N is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

STORAGE

MONOCRETE 360N has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, contact STARKE Technical Department for advice

HEALTH & SAFETY

Monocrete 360N is not classified as a hazardous material.

Monocrete 360N should not come into contact with skin and eyes.

In case of contact with eyes, immediately flush with plenty of water and seek medical attention.

For further information, refer to the Material Safety Data Sheet.

FIRE

MONOCRETE 360N is nonflammable.

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- **Concrete admixtures.**
- **Surface treatments**
- **Grouts and anchors.**
- **Concrete repair.**
- **Flooring Coating**
- **Sealants.**
- **Waterproofing.**
- **Adhesives.**



Important note :

Starke range products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Starke endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation, opinion or information given by it.

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