

Hyperplast ES970

High performance early strength concrete hyperplasticiser



DESCRIPTION

Hyperplast ES970 is a high performance early strength concrete hyperplasticising admixture based on polycarboxylic polymers with long chains specially designed to enable the water content of the concrete to perform more effectively.

This effect can be used in high strength concrete and flowable concrete mixes, to achieve highest concrete durability and performance.

APPLICATIONS

- » High strength and high performance concrete.
- » Structures with congested reinforcement.
- » Pre-cast concrete.
- » Improved cohesion allowing for use in mass concrete pours and piling.
- » Self compacting concrete.
- » For the production of durable concrete.

ADVANTAGES

- » Optimises cement utilization.
- » High density and impermeable concrete through extreme water reduction.
- » Improves shrinkage and creep behaviors.
- » Minimises segregation and bleeding problems by improving cohesion.
- » Higher early and ultimate compressive strengths.
- » Increases durability and resistance to aggressive atmospheric conditions through reduced permeability.

COMPATIBILITY

Hyperplast ES970 can be used with all types of Portland cement and cement replacement materials. Hyperplast ES970 should not be used in conjunction with other admixtures unless DCP technical department approval is obtained.

STANDARDS

Hyperplast ES970 complies with ASTM C494 Type F.

METHOD OF USE

Hyperplast ES970 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 Hyperplast ES970 to the concrete mix.

TECHNICAL PROPERTIES @ 25°C:

Colour:	Brownish liquid
Freezing point:	≈ -11°C
Specific gravity:	1.06 ± 0.02
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

DOSAGE

The recommended dosage of Hyperplast ES970 is 0.5 to 3.0% of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Trials should be conducted to determine the optimum dosage of Hyperplast ES970 to meet the performance requirements by using the materials and conditions in actual use.

EFFECTS OF OVERDOSAGE

Overdosage of Hyperplast ES970 will cause the following:

- » Significant increase in retardation.

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

CLEANING

Clean Hyperplast ES970 with fresh cold water.

PACKAGING

Hyperplast ES970 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

STORAGE

Hyperplast ES970 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 DCP Technical Department for advice.



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CAUTIONS

HEALTH AND SAFETY

Hyperplast ES970 is not classified as a hazardous material. Hyperplast ES970 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

Hyperplast ES970 is nonflammable.

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- » Surface treatments
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- » Protective coatings.
- » Sealants.
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- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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