



FINEST INNOVATION AND EXPERTISE

PLASTOBUILD ES

HIGH RANGE WATER REDUCING, SUPERPLASTICISER FOR RHEOPLASTIC CONCRETE

DESCRIPTION

Plastobuild ES is a superplasticising admixture that contains synthetic polymers. It is chloride free and is specially formulated to impart rheoplastic qualities to concrete.

Rheoplastic concrete is a fluid concrete with a slump value of at least 200mm that flows easily but at the same time is free from segregation and has the same water/cement ratio as that of a no-slump concrete (25mm) without admixture.

Plastobuild ES has been formulated to meet the requirements of ASTM C494 Type A & F and BS EN 934-2 Tabel 3.1 & Table 3.2.

Plastobuild ES is compatible with all cement meeting recognize international standards.

Plastobuild ES is compatible with most admixture types except with polycarboxylate ether based admixtures.

RECOMMENDED TO USE

- Precast/pre-stress concrete
- Site batched concrete
- Pumped concrete
- Wet shotcrete mixes
- Concrete containing micro silica/metakaolin
- Concreting in low temperatures
- High performance grouts/tunnel backfills
- Cementitious injection suspensions

FEATURES AND BENEFITS

- Controlled set times
- Produces flowable concrete at reduced W/C
- High early strengths
- Increased compressive, tensile and flexural strengths
- Reduced permeability
- Reduced thermal peaks, reduced cracking
- Compatible with fly ash and silica fume.
- No corrosion of reinforcing steel embedded in concrete

PROPERTIES

Supply form	Liquid
Colour	Brown
Specific gravity	1.18 ± 0.02 @ 25 °C
PH value	6.5 – 8.0
Chloride ion content	< 0.10%

ESTIMATING DATA

Recommended dosage range:
0.7 to 2.0liters per 100kg of binder

The optimum dosage of Plastobuild ES should be determined with trial mixes.

A severe over-dosage of Plastobuild ES can result increase in air entrainment, bleeding/segregation, plastic shrinkage and delayed setting.

APPLICATION

Plastobuild ES is a ready to use liquid which is dispensed into the concrete together with the mixing water.

Plastobuild ES can be added to concrete via the feed hopper at the rear of the ready-mix truck to produce a flowing concrete at site. Mix before 5minutes at 10rpm for a homogenous mix.

PACKAGING

Available in 1liter, 5liter, 10liter, 20liter containers, 205liter drums and 1000liter IBC's

STORAGE / SHELF LIFE

Plastobuild ES has a shelf life of 12 months and must be stored in a place where the temperature is not below 5⁰C.

Store away from direct sunlight.

PRECAUTIONS

Please obtain the Material Safety Data Sheet (MSDS) of the product from the Finex head office in order to get health and safety information.

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