

FEATURE & BENEFITS

- Reduce Water Cement Ratio
- High Strength & Ultimate Strength Achievement
- Safe Concrete from Corrosive elements
- Improves cohesiveness and reduces segregation
- Produces concrete with lower permeability
- Concrete achieves longer durability
- Protects steel from corrosion
- Concrete can be placed in difficult areas
- Improves bond strength
- Improves flexural strength
- Improves abrasion resistance
- Reduces bleed water
- Curing time is reduced
- Stops Moisture and Dampness on wall
- Able to reduce cement, based on the mix design
- Reduced shrinkage cracks
- Lower permeability and enhanced durability
- Concrete temperature is reduced during mixing
- Increases the paste which results in lower w/c
- Up to 30% water reduction or slump increase
- Non-toxic, non-flammable, and nonhazardous
- Works with Pozzolans, Fly Ash, Silica Fume, Slag

DESCRIPTION

Best Con-SP337 is poly Carboxylic product. It is a dark brown super plasticizer concrete & plaster admixture that provides all of the benefits mentioned above.

Best Con-SP337 does not contain calcium chloride, nitrates or other potentially corrosive materials and is compatible with others standard concrete materials.

PACKAGING

Intake 10 LTR Pail, 20 LTR Pail & 220 LTR Barrel

DOSAGE FOR CONCRETE

Optimum dosage of Best Con-SP337 should be determined with trial mixes. As a guide, a dosage range of 400ml to 1200ml per 100kg of cementitious material is normally recommended. Because of variations in concrete materials, job site condition, and/or applications, dosages outside of the recommended range may be required. In such cases, contact your local representative.

For addition information on Best Con-SP337 admixture or on its use in developing concrete mixes with special performance characteristics, contact your local representative.

EFFECTS OF OVER DOSAGE

- Reduced permeability

- Long extension of initial and final set
- Increase in air entrainment
- Bleed/segregation of mix

SHELF LIFE

Shelf life 3 year from manufacturing date in sealed condition, keep within the temperature of 5°C to 40°C in dry place.

PRECAUTIONS

Best Con-SP337 packages should be stored in a dry location, Protected from breakage, Deterioration and contamination. The packages are not subject to damage from freezing temperatures.

SAFETY

Safety goggles and hand gloves must be used for personal protection while handling the product. In case of contact with eyes, wash immediately in a good current of water under low pressure at least for 15 minutes. Consult physician if irritation persists after 24 hours.

TEST CERTIFICATION / APPROVALS

Property	Result
Appearance	Light Brown Liquid
PH value	7.09 +- 0.07
Specific Gravity	1.04 +- 0.07
Chloride content	zero%
Alkali Content	no affecting alkali
ASTM	C494
TYPE	B, D & G, EN 931-2

SPECIFIC DOSAGES / TYPE OF WORKS

Type of Works	Dosage per bag Cement
Ready-mix Concrete	200-600ml per bag
Superstructure Concrete	200ml – 350ml per bag of Cement
High Strength Industrial floor Hardener	200ml – 350ml per bag of Cement
Bridge/Flyover Concrete	250ml – 500ml per bag of Cement
Stream Concrete	250ml – 500ml per bag of Cement
Power plant Concrete	250ml – 500ml per bag of cement
Precast Cast concrete	150-300ml per bag
Wall Plastering	100-200 ml per bag

CHEMISTRY AND MECHANISM OF ACTION

What differentiates Best Con-SP337 from the traditional super plasticizers is a new, unique mechanism of action that greatly improves the effectiveness of cement dispersion.

Traditional super plasticizers based on melamine and naphthalene sulphonates are polymers which are absorbed by the cement granules. They wrap around the granules' surface areas at the very early stage of the concrete mixing process. The sulphonic groups of the polymer chains increase the negative charge of the cement particle surface and disperse these particles by electrical repulsion.

This electrostatic mechanism causes the cement paste to disperse and has the positive consequence of requiring less mixing water to obtain a given concrete workability.

Best Con-SP337 has a different chemical structure from the traditional super plasticizers. It consists of a carboxylic ether polymer with long side chains.

At the beginning of the mixing process it initiates the same electrostatic dispersion mechanism as the traditional super plasticizers, but the side chains linked to the polymer backbone generates a steric hindrance which greatly stabilise the cement particles' ability to separate and disperse.

Steric hindrance provides a physical barrier (alongside the electrostatic barrier) between the cement grains. With this process, flowable concrete with greatly reduced water content is obtained.

MANUFACTURER INFORMATION

Product	BEST CON-SP337
Type	Water Reducing Super Plasticizer Concrete Admixture
Manufacturer	Best Con Construction Materials Co; Ltd.
Location	Puchong, Malaysia