



BEST CON-SP337

(Water Reducing Super plasticizer Concrete Admixture)



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
- Able to reduce cement, based on the mix design
- Reduced shrinkage cracks
- Concrete temperature is reduced during mixing
- Increases the paste which results in lower w/c
- Up to 30% water reduction or 6" slump increase
- Non-toxic, non-flammable, and nonhazardous
- Works with Pozzalons, Fly Ash, Silica Fume, Slag

Description:

Best Con-SP337 is poly Carboxylic product. It is a dark brown super plasticizer concrete 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:

A severe over-dosage of **Best Con-SP337** can result in the following:

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

Shelf Life:

Self 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:

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



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Specific Doges Type of Works:

Type of Works	Doges 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

Chemistry and mechanism of action:

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 stabilises 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.



Best Con

Construction Materials Co; Ltd.

Puchong, Malaysia

www.bestcon.com