

ASIAN-BOND

Concrete Admixture (SUPER PLASTICIZER)



Manufactured By:-

KADAMBARI PRODUCTS

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Description:-

Asian Bond Super Plasticizer is a high range water reducer and superplasticizer concrete admixture that improves the workability of the concrete and / or helps to reach the same workability with lower water content resulting in significantly improved strengths. It also helps to improve the slump retaining properties of concrete.

Asian Bond Super Plasticizer produces a concrete with lower water content, longer slump life, greater plasticity and higher strength. As a result of those improvements it enables to produce less permeable and more durable concrete.

It can be used with a wide range of dosage rates.

Asian Bond Super Plasticizer does not contain added calcium chloride.

It conforms to the requirement of TS EN 934-2

Product Grade:-

RMC- KP100

RMC- KP200

Technical Properties:-

Chemical Base	Polymer based liquid
Form	Homogeneous, Liquid.
Color, Appearance	Brown liquid
pH value	7-11
Density	$1.17 \pm 1.22 \text{ g/cm}^3$
Chloride Content (%)	<0,1
Storage	Keep the temperatures above +5°C.
Recommended Dosage	0.5 to 2 % by weight of cement.
Shell Life	1 year from the date of production.

Applications:-

Asian Bond Super Plasticizer allows concrete to be produced for below applications

- High quality concrete for durable structures.
- Ready mixed concrete production and job site plants.
- Bridge deck slabs.
- Foundations, ceilings, beams and columns.
- Blast furnace slag, silica fume concrete.
- In the production of concrete with easy placement.

Properties & Advantages:-

- Improves workability of the concrete.
- Decreases risk of segregation.
- Extends the casting and placing time of concrete.
- Asian Bond Super Plasticizer is chloride free.
- Improves strengths.
- Improved cohesion.
- It permits a high reduction in the water content of the concrete.
- Helps to improve slump life of concrete.
- Increased durability.

Method of Use:-

Asian Bond Super Plasticizer is supplied ready for use. When producing concrete it is recommended that Asian Bond Super Plasticizer be added in its supplied form to the batching water prior to addition of the cementitious component.

Addition of any other chemical admixture should be undertaken separately.

Compatibility:-

- **With Cements:**
Asian Bond Super Plasticizer can be used with the most types of Portland cements. Also it can be used at the mixes including fly ash and silica fume.
- **With Other Admixtures:**
Asian Bond Super Plasticizer should not be premixed under any circumstances with other admixtures. The performance of the product will be affected by the presence of other chemical admixtures. We recommend that all admixtures be added separately into the mix.

Addition Rates:-

500 g – 2000 g per 100 kg binder
0.5%-2.0% (v/w) by wt. of binder

The magnitude of the effect obtained with Asian Bond Super Plasticizer, is governed by the quantity of product used, w/c ratio, and the specific nature of the concrete and constituent materials.

It is necessary therefore to assess performance under site conditions using actual materials to determine optimum performance and dosage.

Addition rates outside of the recommended dosage range may be used for special concrete applications. In such circumstances it is important to conduct preliminary trials on the actual mix constituents to assess the effect on the properties of the concrete at the dosage level specified.

For advice and assistance with trials we recommend that you consult Grace Construction Products.

Safety Measures:

Use protective clothes, gloves, glasses and mask compatible with health and safety regulation during the application. Avoid direct contact with eyes and skin during storing and application, in case of contact wash off thoroughly with soap and water, if ingested seek medical attention immediately. Store away from all foodstuffs. Keep away from children.

Storage and Shelf life:

Must be stored at temperatures between +5°C and +35°C. Under proper storing conditions, the product's shelf life is 12 months from production date if kept in original packaging unopened and undamaged.

Uses:-

- Ready mixed concrete production (with or without pump).
- Hot weather concreting.
- Long distance concrete transportation. Production of various types of concrete such as reinforced, unreinforced, light or heavy concrete.
- Mass concrete and roller compacted concrete application.

Packaging:-

Asian Bond Super Plasticizer is available in bulk, 20-250 KG are available in plastic containers.

Warning:

Concrete mix design and admixture dosage should be determined by laboratory tests according to the concrete class and properties.

Under technology
(A.C.I.E.B-E4-12)



American Concrete Institute

