

ROCKBOND HYPER-PLASTICISER

High range PCE super plasticiser

DESCRIPTION

ROCKBOND HYPER-PLASTICISER (RB 6.16) is a new generation very high range super plasticiser based on Polycarboxylate Ether (PCE). Its high efficiency at very low dosages makes it a very cost effective means of improving flowability and achieving high early strengths in ready mix and precast concrete. Can be used to produce self-compacting concrete.

SPECIAL PROPERTIES

- Allows water reduction of greater than 30% in concrete mixes resulting in higher early strengths.
- Increases the workability and flowability of concrete without the addition of extra water.
- Produces denser stronger concrete.
- Produces self-compacting concrete.

USES

- For the production of self-compacting concrete mixes used by the precast industry.
- For the placing of concrete where steel congestion is a problem.
- To achieve maximum flowability in narrow vertical pours in the manufacture of concrete tanks.
- To help in the workability of fibre reinforced concrete.
- To improve the working time of concrete yet still achieve high early strengths.

PACKAGING AND SIZE

ROCKBOND HYPER-PLASTICISER (RB 6.16) is available in 5 Litre and 20 Litre non-refundable plastic containers, in 200 Litre non-refundable steel drums and in 1000lt returnable pods.

MIXING INSTRUCTIONS

AGITATE WELL BEFORE USE.

ROCKBOND HYPER-PLASTICISER (RB 6.16) is compatible with most other commonly available admixtures. Take care to add admixtures separately and watch for any unexpected changes. Where possible a trial batch is recommended.

ADDING AT BATCHING PLANT

ROCKBOND HYPER-PLASTICISER (RB 6.16) should be adding to the mixing water prior to mixing and mixed until toughly dispersed though mix. (Approximately 5 minutes for 5 cubic metre capacity truck). Record effect of time on slump and use to plan delivery schedule.

ADDING TO READY MIX TRUCK

ROCKBOND HYPER-PLASTICISER (RB 6.16) should be added to the concrete via the feed hopper at the rear of the truck and mixed for at maximum speed for a further 5 minutes

DOSAGES

When used to produce water reduced high early strength concrete, the dosage rate range for ROCKBOND HYPER-PLASITICISER (RB 6.16) is generally between 100 – 200ml per 100kg cement, but is dependent on the

type of cement, ambient temperature and the desired result. It is recommended that on site trials should be carried out to achieve optimum dosage rates.

When used to produce Self Compacting Concrete (SSC) ROCKBOND HYPER-PLASTICISER (RB 6.16) will need to be added at the higher end of the range. Full Self Compacting Concrete may not be achieved to a dose rate of over 0.2% by weight of cement. However start at a dosage of below this and work up to the amount required in small increments. Record dosage required for each mix design for future use.

IMPORTANT NOTE:

DO NOT overdose ROCKBOND HYPER-PLASTICISER (RB 6.16). Trial dosage by adding lower amount in the range suggested and increase only if necessary to achieve desired result. Make sure plasticiser is thoroughly mixed into batch and change in slump is checked before adding further increments. An excessive amount of the super plasticiser can cause segregation of mix.

ROCKBOND HYPER-PLASTICISER (RB 6.16) is effective at a very low dose rate and substantially less is used than was used by previous types of super plasticisers.

HEALTH AND SAFETY

Rockbond Special Concrete Products are generally quite harmless, provided normal precautions are taken when handling chemicals.

Avoid contact with food stuffs and utensils. Avoid prolonged skin contact. Wear protective clothing, gloves, goggles etc. In the event of contamination wash thoroughly with water. If the eyes or mouth are affected wash with clean water and obtain medical attention.

TECHNICAL DATA

COLOUR:	Light brown cloudy liquid
SPECIFIC GRAVITY:	Approx 1.10 kg/litre @ 20°C
FLASH POINT:	Non Flammable
TOXICITY:	Non Toxic
DG CLASSIFICATION:	Non Hazardous
CHLORIDE CONTENT:	No added chlorides
SHELF LIFE:	2 years in unopened containers

TECHNICAL INFORMATION

Should you have any queries, or require further information, please contact our Technical Sales Team:

CONTACT DETAILS

T +64 4 568 5401 | F +64 4 568 4580



Rockbond SCP Ltd provides the above information in good faith and without warranty. The data represents typical values which can be updated at any time, and this information supersedes previous issues. No liabilities can be accepted for any damage or loss arising from the use of Rockbond SCP Ltd literature or its products, because Rockbond SCP Ltd has no continuous control on how the materials are mixed, placed or cured.

Revised January 2018