



CC BB23

Air entraining agent for concrete

DESCRIPTION

CC BB23 is an air entraining admixture for concrete, formulated from selected polymers specially designed to create microscopic air bubbles that are uniformly distributed in the concrete mix. This effect can be used to improve concrete cohesion and resistance to freeze thaw cycles.

SCOPE OF USE

- Concrete mixes for roadways, airport runways, other concrete exposed to potential frost damage.
- To increase the durability of concrete and its resistance to damage by frost and de-icing salts.
- To increase cohesion of concrete mixes to overcome bleed, segregation and sand runs where poorly graded aggregate with high fine content needs to be used.

METHOD OF USE

CC BB23 should be added to the concrete with the mixing water to achieve optimum performance. An automatic dispenser should be used to dispense the correct quantity of CC BB23 to the concrete mix

DOSAGE

The guidance dosage of CC BB23 to achieve air content of $5 \pm 2\%$ in the concrete mix is 0.05 - 0.30 litre/100 kg of cementitious material in the mix, including GGBFS, PFA or microsilica. We can go below or above the mentioned dose based on site concrete trials. Representative trials should be conducted to determine the optimum dosage of CC BB23 to meet the performance requirements by using the materials and conditions in actual use

POINTS TO BE CONSIDERED THAT AFFECTING AIR ENTRAINMENT

Any variation in the following factors will cause change in the air content:

- i. Cement fineness.
- ii. Concrete temperature.
- iii. Sand grading.
- iv. Mixture types.
- v. Compaction on method.
- vi. Carbon or organic impurities

EFFECTS OF OVER DOSAGE

- Over dosage of CC BB23 will cause the following:
- Significant increase in air content which may cause slight reduction in the compressive strength.
 - Slight increase in setting time.

CLEANING

CC BB23 can be washed with fresh cold water.



PACKAGING

CC BB23 is available in 25 liter pails, 210 liter drums and 1000 liter bulks supply.

STORAGE

CC BB23 has a shelf life of 24 months from date of manufacture if stored at temperatures between 2°C and 50°C. If these conditions are exceeded, CC Technical Department should be contacted for advice.

ADVANTAGES

- Greatly improves cohesion, reduces segregation and bleeding.
- Increased freeze/thaw cycle resistance.
- Improves workability and plasticity.
- Exceptionally effective with aggregate with high fine content.
- Suitable for mixes containing PFA, GGBS and microsilica.
- Chloride free

HEALTH AND SAFETY

CC BB23 is not classified as hazardous material. BB23 should not come into contact with skin and eyes. In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly

STANDARDS

CC BB23 complies with ASTM C260.

FIRE

CC BB23 is nonflammable.