

BC Tec corrosion inhibitor

Product Description:-

BC Tec corrosion inhibitor - S (BCI -S) is a chloride free, ready to use aqueous solution of Calcium Nitrite exhibiting a neutral concrete setting time

It complies with ASTM specification C 494 requirements for type C admixtures. While having corrosion inhibition properties to the same standard as CCI Corrosion Inhibitor, BCI-S will perform without the normal accelerating effect associated with ASTM 494 Type C admixtures

In BCI-S, calcium nitrite is an active ingredient which reacts chemically to interrupt chloride induced corrosion. BCI-S interacts with the surface of reinforcing steel to form an effective barrier which prevents chlorides in the concrete from attacking the steel.

The induced barrier is insoluble and after determining the chloride content, the Structural Engineer can specify the appropriate amount of BCI-S which should be added to ensure the structural integrity of concrete.

BCI-S is fully compatible with the CEMTEC range of Super Plasticizers, Retarders, Air Entraining Agents and other concrete admixtures. The combined use of BCI-S and CEMTEC Super Plasticizers will delay the onset of chloride induced corrosion. All admixtures should be dispensed separately to obtain the desired results. BCI-S is a neutral set corrosion inhibitor specially formulated to minimise the effect on concrete setting times which may initiate slump loss.

Due to the various climatic, environmental or job site conditions, which may prevail, an accelerator or a retarder may be added to the concrete mix. The water cement ratio should be adjusted taking into consideration the water available in BCI-S in effort to maintain the desired water cement ratio. The water added at the batching plant should be reduced to compensate for the addition of CCI-S.

The adjustment factor is approx. 0.85 kg per ltr of

BCI-S is compatible with all type of portland cements and Pozzolanic cements

Specification:

solid content not less than 30% by weight.
Specific Gravity : 1.28 ±0.01
Minimum Dosage : 10 Ltr/m ³

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Advantages:

Exhibits neutral setting time for the concrete.
Provides Protection for reinforcing steel.
Easy to use.
Eliminates use of expensive Epoxy coatings on reinforcing steel.
Increases compressive strength.
For use in restressed and post-tensioned concrete in vertical and horizontal members.

Content of BCI- S Solution:

KG/m3	KG/m3 L/m3
1	2.5
2	5.0
3	7.5
5	12.5
7	17.5
8	20.0
9	23.0
10	25.0
11	28.0
12	30.0
13	33.0
14	35.0
15	38.0

PACKING:

210 ltr drums and 1000 ltr IBC tanks

STORAGE:

BCI- Sfreezes at approx. 5° C

SHELF LIFE:

2 years in unopened pack when stored properly.

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