for Better Quality & Durability

BRC – BRICK HARDENER

CETEX BRC – BRICK HARDENER, increases the strength, density, durability, and surface hardness of concrete, clay and fly ash bricks. They work by enhancing cement hydration, acting as binding agents, and accelerating curing times, thus reducing breakage and improving water resistance. **BRC** decreases the set time of the mix hence is used in **production of concrete/bricks where early set is required**. It is ideal for sprayed or pumped concrete/mortar mix (flyash, clay etc.) like in shotcrete / guniting and ready-mix concrete. It is also suitable for concrete where high early strength is required or formwork has to be removed early, for example reinforced pre cast. **It complies with ASTM-C-494 Type C, IS- 9103.**

MECHANISM

CETEX BRC increases the chemical reaction of cement and water, thereby accelerating the rate of setting and early gain in the strength. It also results in overall strength of concrete.

ADVANTAGES

- Faster hydration process results in faster hardening and early higher strength of fresh mix.
- It can be used as anti-freeze admixture for winter concreting. It can also be used to counteract retardation due to superplasticiser.
- It reduces rebound loss in shotcrete / guniting. It allows early shifting of pre-cast elements.
- It reduces/eliminates steam curing cost of pre-cast elements.
- It does not contain chlorides; hence it does not corrode the steel structure.

PROPERTIES

Type	:	Ca+ based salt solution
Color	:	Hazy whitish liquid
Specific Gravity	:	1.40 +/- 0.02 at 25^{o}C
Chloride	:	Nil
pH	:	Alkaline

DOSAGE

200–500ml per 50 kg of cement is recommended depending on application. However, field trials should be conducted to determine the optimum dosage to achieve the required condition

DIRECTION OF USE

CETEX- BRC should be added to the concrete mix during the mixing cycle after addition of water. **Never add the admixture to the dry mix.**

PACKING

CETEX- BRC is available in 70 or 300 kg pack. Store in frost-free condition away from sunlight or extreme heat. For best result, use within one year.