

SBT[®]-510 Superaccelerator

Brief Introduction

SBT[®]-510 is a high-performance, eco-friendly concrete admixture developed by Sobute New Materials Co. Ltd. SBT[®]-510 can shorten the cement induction process and promote early formation of hydration product, thus accelerating hydration and early-age strength development. With SBT[®]-510, early-age strength (<24h) can be significantly improved with no negative effects on later-age strength and durability. The production cycle can be also shortened, and energy cost can be saved. It is optimized for concrete requiring quick early-age strength development, e.g., prefabricated construction, tunnel segments and PHC.

Product Features

- **Fast Setting:** Shortens initial setting time by 0.5-2h, based on type and composition of concrete.
- **Super accelerating:** Greatly improves early-age strength. 12h mortar strength (0.5 w/c) with SBT[®]-510 increases by 150%, the effect strengthens with lower w/c.
- **Steady long-term strength development:** No negative effects on later-age strength.
- **Low alkali, chlorine/sulfate-free:** No adverse components that affect durability.
- **Good compatibility:** Applies to various types of cement and SCM-compatible.

SBT[®]-510 Concrete Super-accelerator

Method of Use and Matters Needing Attention

- **Dosage:** Recommended dosage rate of the SBT[®]-510 is 2.0%~10.0% (by the weight of binders). The dosage should be further optimized based on application circumstances. Consult us when using beyond the recommend dosage.
- **Mixing and compatibility:** This product can be directly combined with cement and aggregates, and it is recommended that SBT[®]-510 be used with polycarboxylate superplasticizers. When it is utilized with other water reducers, air entrainers and accelerators, preliminary tests should be conducted.
- **Curing:** Correct methods are recommended to avoid moisture loss.

Packaging and Storage

- SBT[®]-510 is normally packaged 200L or 1000L per barrel drum. Other types of packaging are available as requested.
- SBT[®]-510 should be stored in a cool, dry environment and if in cold conditions, the product should be properly insulated and defrosted with correct stirring to reactivate its performance. The maximum product life is within six months if maintained in the proper conditions.

Security Matters

SBT[®]-510 contains no hazardous substances that require labeling. However, using standard handling procedures with the product is recommended. Wear gloves and eye protection and wash the skin with soap and water at the end of shifts or breaks if contact with the product occurs.

Technology and Service Characteristics

To guarantee the desired concrete performance, we provide a technical consulting service dealing with the design of concrete mix proportion and experiments on the optimization of mix proportion. Our technical staff offers an on-site directing service for free.

NOTE: Field service, where provided, does not constitute supervisory responsibility. Suggestions made by SOBUTE whether verbal or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, but not SOBUTE, are responsible for carrying out procedures appropriate to the specific application.



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