

SBT[®]-N(II)

Liquid Setting Accelerator (Alkali-free)

Brief Introduction

SBT[®]-N(II) is a high performance alkali-free setting accelerator for sprayed concrete. It speeds the chemical reaction between cement and water which causes mortar to set faster and increase the early strength development. SBT[®]-N(II) has the properties of well adapted to cement, quick setting, high early strength and low rebound of concrete. It is widely used in many fields such as mining, hydropower, highway, railway tunnel, laneway, cave and so on.

Product Features

- **Accelerated setting time.** Cement paste initial setting time not more than 5 min, final setting time not more than 10 min in accordance with GB/T 35159-2017 *Flash setting admixtures for shotcrete*.
- **High early strength.** Cement mortar compressive strength at 24h more than 8.0 MPa, compressive strength ratio at 28d more than 90% and compressive strength retention rate at 90d more than 100% in accordance with GB/T 35159-2017 *Flash setting admixtures for shotcrete*.
- **Excellent workability.** Sprayed concrete added with SBT[®]-N(II) has good cohesiveness and very low dust generation during application and therefore a good working environment.
- **Enhanced durability.** Does not contain any added chloride ions that the product does not contribute to the corrosion of reinforcing steel. Alkali-free can improve the service life of sprayed concrete

Technical Data

The following data are the typical characteristics of the product, and will be slight adjusted depending on the customer needs.

Items	Results
Aspect	Colorless or orange liquid
Density, g/cm ³	1.40±0.03
Content, %	50.0× (1±5%)
Chloride Content,% , ≤	0.02
(Na ₂ O+0.645K ₂ O), % , ≤	0.1

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Use Method and Matters Needing Attention

- **Dosage:** The normal range of SBT[®]-N(II) addition rate is 7% ~ 9% by the total weight of cementitious materials. Optimum dosage should be determined by site trials.
- **Usage:** SBT[®]-N(II) is added into the jet of the shotcrete gun and then mixed with concrete mixture in the work process of sprayed concrete. It should not be diluted directly into the mixing water.
- **Compatibility:** Sprayed concrete added with SBT[®]-N(II) does not mix with retarder or retarding water reducing admixture.

Packaging and Storage

- SBT[®]-N(II) is supplied in 250kg drums or can be adjusted according to user need.
- SBT[®]-N(II) must be stored at minimum +5°C and maximum +35°C. Store under cover, in the dry environment, out of direct sunlight. Shelf life is 3 months when stored as above.

Security Matters

- Non flammable and non combustible. Free of formaldehyde.
- Do not eat, avoid eye and skin contact. If skin contact occurs, rinse with plenty of water. In case of eye contact, seek medical advice.

Technology and Service Characteristics

Taking “creating better materials and better future” as its mission, Sobute New Materials Co., Ltd. (SBT) is focusing on the research, development and application of concrete admixtures. Through consultative service and chain operation, it provides system solutions of concrete technologies for enterprises engaged in concrete production and application in the world.

Disclaimer: This Instruction Manual is a guidance for normal storage and use of SBT[®]-N(II). In practice, how to use the product should be based on concrete mix, construction requirements, and environment, and should be determined by field testing or under the guidance of our technicians.



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