

# SBTHF®-V Grouting Material for Post-tensioned Pre-stressed Concrete Structure

## Brief Introduction

SBTHF®-V is an amalgamation of cement, low-alkali, high-expansion material and functional polymers. The grout possesses multiple properties with long workable time, no bleeding, and mild expansion. It is suited for the preparation of post-tensioning duct grouts applied in expressway and large bridge projects.

## Product Features

- **Using simple:** SBTHF®-V is suitable for on-site water mixing;
- **High retention:** Virtually no flow loss from the grouting within 60 min;
- **Excellent workability:** No bleeding or segregation, enhancement of interfacial adhesion and an increase of the protection impact of hardened paste on the post-tensioning bar;
- **High durability:** The pore structure of hardened paste is compact, and the hazardous materials are difficult to access;
- **Non-toxic and non-corrosion to steel bar.**

## Technical Date

Following data are the typical characteristics of SBTHF®-V, which can be adjusted slightly depending on customer's needs. Performance index of SBTHF®-V can be referred to technical requirements of JTG/T F50-2011.

Item	Unite	Text Value
Fluidity	Initial	s
	30min	s
	60min	s
Free Swelling Rate	3h	%
	24h	%
Mechanical Properties(3d)	Compressive Strength	Mpa
	Bending Strength	Mpa
Mechanical Properties(7d)	Compressive Strength	Mpa
	Bending Strength	Mpa
Mechanical Properties(28d)	Compressive Strength	Mpa
	Bending Strength	Mpa

# SBTHF<sup>®</sup>-V Post-Tensioning Duct Grouting for Pre-Stressed Concrete Structure

## Method of Use and Matters Needing Attention

- **Use:** SBTHF<sup>®</sup>-V is suited for on-site water mixing, the suggested W/ SBTHF<sup>®</sup>-V =0.28 and the optimal W/C may be determined via experiments in accordance with mixing techniques.
- **Mixing:** Mixer with more than 1000r/min mixing speed is acceptable and the mixing time should be no less than 5 min.

## Packaging and Storage

- **Packaging:** SBTHF<sup>®</sup>-V is packed in valve bags or bulk package. The net weight for each bag is 40kg, for load and transport convenience.
- **Storage:** The packages should be stored in a cool and dry place. Protection from water should be guaranteed during transportation. Maximum product life is within 6 months if maintained in the proper conditions.

## Security Matters

SBTHF<sup>®</sup>-V contains no hazardous substances that require labeling. However, using standard handling procedures with the product is recommended.

## 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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江苏苏博特新材料股份有限公司  
Sobute New Materials Co.,Ltd.

地址: 江苏省南京市江宁区醴泉路118号 211103  
电话: 025-52837588 传真: 025-86630885  
网址: www.cnjsjk.cn Email: info@cnjsjk.cn



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