

## PRODUCT DATA SHEET

# Sika® Stabilizer-1 BF

### CEMENT HYDRATION CONTROL ADMIXTURE

#### DESCRIPTION

Sika® Stabilizer-1 BF is liquid admixture for stabilizing and retarding cement/ betonite grout.

Sika® Stabilizer-1 BF is used as plasticizer and retarder to produce good quality concrete. Complies with ASTM C494 Type D.

#### USES

Sika® Stabilizer-1 BF is used in cement / bentonite injection grouts commonly used in backfilling operations during tunnels excavations with shield EPBM or TBM. Sika® Stabilizer-1 BF is used in structural and mass concrete where long setting times and improved workability are required, such as projects with:

- Large pours, to prevent formation of cold joints
- Long travel times from the concrete plant to the site
- Difficult placing conditions and details
- High ambient temperature

#### CHARACTERISTICS / ADVANTAGES

- Improve open time of cement/betonite grout
- Reduce sedimentation of cement/betonite grout
- Only set retarding, does not delay the hardening process
- Allow substantial cement reduction compared to plain concrete
- Increase in ultimate strength
- Good control of slump loss even at elevated ambient temperature
- Reduce shrinkage and creep
- Chloride free, does not attack reinforcement steel

#### PRODUCT INFORMATION

<b>Chemical base</b>	Blend of Lignosulfonates
<b>Packaging</b>	200 L drum / 1000 L IBC
<b>Appearance / Colour</b>	Liquid / Dark Brown
<b>Shelf life</b>	12 months if stored properly in original unopened packaging
<b>Storage conditions</b>	Stored in dry conditions, protected from direct sunlight and at temperature between +5 °C and +30 °C.
<b>Specific gravity</b>	1.20–1.30 kg/l (At 20 °C)
<b>pH-Value</b>	6.50–9.50 (At 25 °C)

#### TECHNICAL INFORMATION

<b>Concreting Guidance</b>	Effective measures for concrete curing must be followed.
----------------------------	--

## Specific Advice

Sika® Stabilizer-1 BF is either added to the gauging water prior to its addition to the dry concrete mix or added separately to wetted concrete mix, further mixing should take place for at least 1 minute per m<sup>3</sup>.

---

## APPLICATION INFORMATION

---

### Recommended Dosage

0.2–2 L per 100 kg of cement

### Compatibility

Sika® Stabilizer-1 BF may be combined with all Sikament, Sika® Aer, Sika® Pump, Sikacrete® PP-1 products, but must be added separately to the mix and not pre-mixed prior its addition.

Sika® Stabilizer-1 BF is compatible with all Portland Cement types.

---

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATION

Overdosing will result in increased workability and setting time of the concrete; however provided that curing is effective, ultimate concrete strength and properties will not be affected.

Accurate dispensing equipment can be supplied by Sika Limited (Vietnam)

Use an appropriate concrete mixer and do not mix by hand.

Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance.

## ECOLOGY, HEALTH AND SAFETY

**Protective Measures:** Avoid prolonged contact with skin. Wash off thoroughly with soap water.

In case of contact with eyes or mouth, rinse immediately with clean warm water and seek medical attention without delay.

Avoid contact with food stuff and utensils.

**Ecology/Waste disposal:** Do not dispose of into water or soil, but according to local regulations.

**Transportation class:** Non-hazardous

**Toxicity:** Non-toxic

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always

refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

**Sika Limited (Vietnam)**

Nhon Trach 1 Industrial Zone,  
Nhon Trach Dist., Dong Nai Province,  
Vietnam

Tel: (84-251) 3560 700

Fax: (84-251) 3560 699

sikavietnam@vn.sika.com



**Product Data Sheet**

Sika® Stabilizer-1 BF

January 2021, Version 03.01

021404021000000110

SikaStabilizer-1BF-en-VN-(01-2021)-3-1.pdf