

## PRODUCT DATA SHEET

# Sika® Stabilizer SLF 20

(formerly SLF 20)

### FOAMING AGENT FOR CONCRETE MILK, MORTAR AND CONCRETE

#### DESCRIPTION

Sika® Stabilizer SLF 20 is a foaming agent for obtaining extremely uniform and highly entrained air in stable and relatively independent foam. In case where stable foam in cement milk is considered difficult, Sika® Stabilizer SLF 20 in proper dosage enables to produce uniform and stable foam cement milk. Moreover using perlite, artificial lightweight aggregate (ALA) or other special materials, it enables to produce economically excellent lightweight, heat-insulating and sound absorbing foamed mortar and concrete.

#### USES

- All sort of lightweight filling for bank of tunnel entrance, expansion of roads, construction of road embankment on soft ground, etc. (Refer "Foamed Cement Banking Method" developed by Japan Highway Public Corporation).
- Back filling of tunnel lining, making flat subsoil on slopes, soft ground treatment, etc.
- Filling various unused pipes, etc.
- Heat-insulation products, ALC panels, safety box, etc. particularly requiring fine surface.

- Roof slabs, cap flashing and raising floor level.
- The substrate of waterproofing in decks roofs, balconies, etc., slab mortar and concrete on the ground and the substrate of pedestrian deck.
- Other various air-entrained cement and foamed mortar and concrete application.

#### CHARACTERISTICS / ADVANTAGES

- Achieves excellent foaming performance not only in cement milk but also mortar and concrete.
- Improves plasticity and prevent materials segregation.
- Reduces bleeding – consequently minimizes sedimentation.
- By varying the dosage rate, stable and independent fine foam can be produced arbitrary (approx. 70% in cement milk, 60% in mortar and 30% in concrete).
- Produce fine surface hardened products with excellent properties of light weight, heat-insulation and sound absorbing, etc.
- Suitable for either "Pre-Foamed" or "Ordinary Mixing" method.
- Maintain good working at tunnel, underground jobs, etc. due to scentless agent.

#### PRODUCT INFORMATION

Chemical Base	Quality alcohol and sulfuric ester
Packaging	200 kg drum
Shelf Life	12 months from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage Conditions	Store in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.
Colour	Liquid

## TECHNICAL INFORMATION

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### Concreting Guidance

The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and curing applied as early as possible.

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## APPLICATION INFORMATION

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### Recommended Dosage

Dosage varies considerably according to employed materials, temperature, mix-design, mixing procedure, etc. Therefore, trial mix should be made to determine the appropriate dosage.

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### Compatibility

Sika® Stabilizer SLF 20 may be combined with many other Sika products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations.

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### Dispensing

Pre – Foamed Method on site :

- Dilute Sika® Stabilizer SLF 20 with water at ratio of 1:20 to 1:39.
- Control amount of compressed air and flow of diluted Sika® Stabilizer SLF 20 on the foam generator equipment to obtain appropriate optimum foam volume (Volume of foam/Volume of dilutes Sika® Stabilizer SLF 20) around 20-25 times.
- Introduce foam into either continuous mixer or agitator truck directly and mix well with mortar or concrete. Then place foamed mortar/concrete by pump, etc.
- Consult with local field representative about foaming machine, etc. in detail.

Ordinary Mix Method at mixing plant :

- Introduce undiluted Sika® Stabilizer SLF 20 into mixing water. In this case, amount of Sika® Stabilizer SLF 20 should be counted as a part of mixing water.
  - Introduce aggregate and cement into the mixer and then add mixing water with Sika® Stabilizer SLF 20. Mix well water for 2 times or more than the ordinary mix.
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## 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.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

## LOCAL RESTRICTIONS

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

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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