

PRODUCT DATA SHEET

SikaInject®-867

High yield thixotropic cable bolt grout

DESCRIPTION

SikaInject®-867 is a thixotropic, high yield, and shrinkage compensated grout used for placement of cable and rock bolts in tunnels and underground mines

USES

SikaInject®-867 may only be used by experienced professionals.

- SikaInject®-867 is particularly suitable as a grout used for the encapsulation of roof bolts and cable anchors where the “top-down” grouting method is preferred.
- SikaInject®-867 has been specially developed to give a high yield (volume) of grout without segregation or bleed whilst providing excellent compressive strengths.

CHARACTERISTICS / ADVANTAGES

- Highly pumpable; yet, exhibits rapid thixotropy
- Can be applied through small-diameter grout tubes
- Excellent strength development
- Extended working time (~60 min at 20 °C)
- Excellent bond to steel and surrounding strata
- Restricted flow into surrounding strata
- Enables the use of smaller drill holes
- Eliminates the requirement for sealing of the collar and plate with cotton waste etc.
- Economical to use
- Enhances the safety of critical bolt and anchor installations

PRODUCT INFORMATION

Packaging	20 kg bag
Shelf Life	12 months from the date of production
Storage Conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +35 °C.

TECHNICAL INFORMATION

Compressive Strength

	24 Hours	7 Days	28 Days
6.0 litres water per 20kg	~ 30 MPa	~ 55 MPa	~ 65 MPa
6.5 litres water per 20kg	~ 25 MPa	~ 50 MPa	~ 60 MPa
7.0 litres water per 20kg	~ 23 MPa	~ 45 MPa	~ 55 MPa
7.5 litres water per 20kg	~ 20 MPa	~ 40 MPa	~ 50 MPa

AS1478.2 Appendix A. restrained 50 mm cubes at 23°C, Age Typical compressive strength. Strength development depends on the amount of mixing water, ambient temperature, age and curing of the grout mixture. Actual results may vary.

APPLICATION INFORMATION

Yield

Mixing 20 kg grout with 6.5L water = ~ 13L of grout mixture

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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

For best results, a high mechanical shear mixer or a paddle mixer should be used. The grout pump must have accurate water dosing capabilities.

MIXING

SikalInject®-867 is supplied ready to use; requiring only the addition of potable water.

Fill the mixer with the correct amount of water that matches the number of SikalInject®-867 bags. As a guide, use 6.0 - 7.5L of water per 20 kg bag of SikalInject®-867 grout for a thixotropic mixture. The actual amount of water required will depend on the desired consistency of the grout mixture and the grout pump available. Do not exceed the amount of water recommended for obtaining thixotropic mixtures. Start the mixer after adding the required amount of water. Slowly add SikalInject®-867 grout powder. Continue mixing until a thick, creamy, no-lump consistency is obtained. Discard any grout mixture that has been left unattended for more than 60 minutes. Do not retemper.

CLEANING OF TOOLS

As with all grouting operations, it is essential to systematically clean the pump and grout lines with clean water. This should be done immediately after completion of grouting operations. If the grouting operations delay for more than an hour, the batched grout mixture should be discarded, and the pump and grout lines cleaned.

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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