

PRODUCT DATA SHEET

SikaInject®-863

High strength flowable grout for long strand cables and strata binding

DESCRIPTION

SikaInject®-863 is a shrinkage compensated, highly flowable precision grout for placement of rock and cable bolts and strata binding. The product exhibits high early and ultimate strengths and can be used in underground mine and civil tunnel applications.

USES

SikaInject®-863 may only be used by experienced professionals.

- encapsulation of roof bolts and cable anchors
- where “bottom up” grouting method is preferred

CHARACTERISTICS / ADVANTAGES

- High ultimate strengths
- Ensures the permanence and safety of critical installations
- High flow characteristics
- Enables the full encapsulation of bolts through narrow grout tubes and penetration of fine fissures
- Extended working time
- Enables easier cleanup of pumps and hoses
- Shrinkage compensated for greater bond strength to surrounding borehole & strata
- High bond to steel

PRODUCT INFORMATION

Packaging	20 kg moisture resistant bags other pack sizes on request
Shelf Life	12 months
Storage Conditions	store in a dry, covered place

TECHNICAL INFORMATION

Compressive Strength	Age Typical compressive strength	
	1 day	25 MPa
	7 days	50 MPa
	28 days	60 MPa
Typical rates of strength development of 20 kg grout + 6.5 L water Compressive Strength – Typical results (AS1478.2 Appendix A. restrained 50mm cubes at 23°C). Grout strength development depends on the amount of mixing water, ambient temperature, age and curing.		

APPLICATION INFORMATION

Yield	20kg of grout + 6.5 L of water = ~13 L (0.013m3)
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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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

MIXING

SikaInject®-863 is supplied ready to use, requiring only the addition of potable water. Do not use hardened or lumpy grout caused by torn or water damaged bags. Actual amount of water will depend on the desired consistency of the grout required and the grout pump available. As a guide, use 5.5 - 7 liters per 20 kg bag. Do not use excess water. Discard any grout that has been left more than 90 minutes.

APPLICATION

STM (Sika Tunneling and Mining) Team provides a range of support services which can include operator training, underground audits and stock control assistance. Each service package can be developed to suit individual site requirements. It is strongly recommended that a review with fully trained and qualified Sika personnel is conducted prior to placement of SikaInject®-863.

CLEANING OF TOOLS

Systematic cleaning of the pump, grout and lines with clean water is essential. This should be done immediately after completion of grouting operations. If delays occur greater than 90 minutes, the batched grout should be discarded, and the unit cleaned out.

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.

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