

PRODUCT DATA SHEET

SikaInject®-865

FAST SETTING MICRO-FINE PORTLAND CEMENT FOR ROCK AND SOIL INJECTION

PRODUCT DESCRIPTION

SikaInject®-865 is a well-graded cement with fast setting-time, milled from pure Portland cement clinker.

USES

SikaInject®-865 may only be used by experienced professionals.

- Pre-excavation grouting in underground structures,
- Post injection,
- Water ingress reduction,
- Ground stabilization,
- Contact injection.

CHARACTERISTICS / ADVANTAGES

- Initial and final setting faster than standard micro-fine cements,
- Small particle size = very good penetration into fine joints, fissures and pores,
- Providing a water-tight grouted rock or soil mass,
- Increases the productivity in injection operations,
- Short open-time = reduction of waiting-time until next excavation round to a minimum.

PRODUCT INFORMATION

Packaging	Available packaging in 44lb bags (20 kg) and 2204lb bulk bags (1000 kg).
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Shelf Life	9 months in original, unopened packaging
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Storage Conditions	Store in a dry, covered area, protected from the elements in well-ventilated areas
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Grain size distribution	Fineness (Blaine) > 625 m ² /kg
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Distribution:

<40 micron - 100%	d95 - 20 microns
<30 micron - 99%	d50 - 5 microns
<20 micron - 95%	d25 - 2 microns
<15 micron - 90%	
<10 micron - 70%	
< 5 micron - 40%	
< 2 micron - 25%	

APPLICATION INFORMATION

Flowability	Injection grout properties indicated below, relates to a mix containing a High-Range-Water-Reducing-Admixture (e.g. 1.5% Sika Viscocrete): <ul style="list-style-type: none">▪ Water/cement ratio 1.0▪ Mud balance (Specific Gravity) 1.48 – 1.50▪ Flow cone 32 – 34 s▪ Bleeding maximum 2 %
Pot Life	The mix should be kept under constant agitation prior to injection. Do not keep the grout in the agitator longer than 30 – 40 minutes.
Set Time	60 min - 120 min Vicat needle up to 6 mm +/- 3 mm, over ground
Final set time	120 min - 150 min Penetration by Vicat needle, 1 mm Setting times at 1:1 w/c ratio (by weight), 68°F (20°C)
Finishing time	SikaInject®-865 will have set sufficiently after 2 - 2½ hours to allow drilling for control or blast holes

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

MIXING

SikaInject®-865 must be mixed with a High-Range-Water-Reducing-Admixture (Sika Viscocrete) that is dosed at 0.6% - 2.0% of cement or cementitious material weight.

Bleeding/segregation testing is required to confirm compatibility and should be conducted by the following:

- Fill mixer with water, with a water-cement ratio of 0.6 - 1.0
- Add cement while running mixer
- Mix for 2 min more
- Add the High Range Water Reducing Admixture and mix 1 min
- Transfer to agitator

Note:

- Use efficient mixer; colloidal mixers with >1500 rpm give best results
- Do not over-mix
- Mixing longer than recommended may cause temperature-increase and grout set in pump and/or hoses

Contact your local Sika STM Technical Representative for more information.

APPLICATION

- Typically high-pressure piston pumps are used to pump the suspension into the rock.
- Inject grout within 30 - 40 minutes after mixing to ensure that it keeps spreading into fissures.
- Longer open times can be achieved by using SikaTard hydration-control stabilizer-admixture.
- For much longer open times use SikaInject®-865 SR, available upon special request.

Contact your local Sika STM Technical Representative for more information.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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Product Data Sheet

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