BUILDING TRUST

PRODUCT DATA SHEET

Sika® Injection-190 GB

MICRO CEMENT INJECTION GROUT

PRODUCT DESCRIPTION

2-part, sustainable mineral injection grout based on microcement binders with added corrosion inhibitors (d95 < 9.5 µm).

USES

Sika® Injection-190 GB may only be used by experienced professionals.

- Injection of SikaFuko® injection hoses (VT-1 & VT-2)
- Filling of voids
- Final, rigid, cementitious sealing of cracks while simultaneously treating corroding or corrosion-prone reinforcing steel in concrete and mortar

CHARACTERISTICS / ADVANTAGES

- Structural grouting of cracks
- Corrosion protection of embedded reinforcement
- Deep penetration of narrow cracks in concrete and mortar
- Good flow properties
- Sustainable injeciton grout

PRODUCT INFORMATION

Chemical Base	Modified micro cement and supplementary cementitious material		
Packaging	Part A:	20 kg bag	Powder component
	Part B:	13 kg container	Liquid component
	Part A + B:	33 kg	Ready mix unit
Shelf Life	In unopened original packaging: 12 months from date of production		
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.		
Density	Part A + B: ~ 1.70 kg/l (+20 °C)		
Viscosity	~ 450 mPa·s (+20 °C @ 12 RPM, Spindle No.63)		

TECHNICAL INFORMATION

Compressive Strength	1 day:	~ 7 MPa
	28 days:	~ 50 MPa

APPLICATION INFORMATION

Yield	Pre-batched unit of 33 kg gives: ~20 L of injection grout
Ambient Air Temperature	Min. +5 °C, max. +35 °C
Mixing Ratio	Part A : B: 1 : 0.65 (by weight)
Substrate Temperature	Min. +5 °C, max. +35 °C
Pot Life	~ 1 hour Keep in movement when not in use. (Extended mixing may increase initial set time)

VALUE BASE

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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be sound, clean, free of oil and grease, old coatings and other contaminations.

For good adhesion, pre-treat the substrate with high pressure water or mechanically.

Use air pressure to remove dust from cracks.

MIXING

Place the liquid part B in a suitable mixing vessel. Mix with colloidal mixer at a minimum 2 800 rpm and add the powder part A slowly and continuously. Mix the suspension thoroughly for at least 5 minutes.

Subsequently, pour the injection material directly into the pump or keep ready in a clean container.

APPLICATION METHOD / TOOLS

The injection material can be injected with commercially available equipment designed for cement injections (injection pressure 3 - 8 bar).
Start injecting at low pressure and build as necessary.

For vertical injection sections, inject from bottom to top.

If dry concrete has to be injected, it is recommended to pre-wet the concrete with water under light pressure.

In order to enable post-injections, the freshly injected section of the SikaFuko® systems (or the injection packers) must be thoroughly rinsed.

CLEANING OF TOOLS

Clean tools with water immediately after use.
Hardened material can only be removed mechanically.

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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