

PRODUCT DATA SHEET

Sika® InjectoCem®-190

MICRO CEMENT INJECTION GROUT

DESCRIPTION

Sika® InjectoCem®-190 is a two part injection grout based on micro cement ($d_{95} < 9.5 \mu\text{m}$) with added corrosion inhibitors.

USES

Sika® InjectoCem®-190 is used for:

- Injection of the SikaFuko® -System
- Filling of voids
- Final rigid cementitious sealing of cracks

It is possible to fill in wet and dry voids (thickness > 0.2 mm)

It also provides simultaneous corrosion protection of steel reinforcement.

CHARACTERISTICS / ADVANTAGES

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

PRODUCT INFORMATION

Chemical Base	Modified micro cement
Packaging	Part A: 2 bags each containing 2.5 kg powder Part B: Pail of 3.25 kg liquid Pre-batched units of 8.25 kg (Part A+B) Both parts packed in plastic pail.
Colour	Part A: in powder form as a micro cement Part B: in liquid form with corrosion inhibitors
Shelf Life	12 months from date of production if stored in unopened, undamaged and sealed original packaging
Storage Conditions	Store in dry conditions at temperatures between +5 °C and +30 °C.
Density	~1.70 kg/L mixed (at +20 °C)

Viscosity ~100 MPa.s (at +20°C)

TECHNICAL INFORMATION

Expansion	Shrinkage:	
	Dry storage:	~4.5 ‰
	Wet storage:	~0.25 ‰
Compressive Strength	After 1 day:	~40 N/mm ²
	After 7 days:	~44 N/mm ²
	After 28 days:	~47 N/mm ²

APPLICATION INFORMATION

Mixing Ratio	Sika® InjectoCem®-190 is supplied in pre-batched units and should only be mixed and applied in these. Do not part batch. Mixing ratio A : B = 1 : 0.65 parts by weight (if required max. 0.2 l water may be added).
Ambient Air Temperature	+5 °C min. / +35 °C max
Substrate Temperature	+5 °C min. / +35 °C max
Substrate Moisture Content	Normally concrete is "Damp". If it is dry, flush relevant area of concrete firstly with water.
Yield	Pre-batched units of 8.25 kg produce approx 5 litres of injection grout.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION/PRETREATMENT

Sound, clean, free from oil and grease, old coatings or other contaminants. Pretreatment for good bond: Prepare concrete, mortar, stone etc with high pressure water jetting, or mechanical means. Clean cracks of dust with compressed air.

MIXING

Pour liquid part B into suitable container. Mix with a colloidal mixer at 2'800 rpm and slowly, continuously add part A. Mix the grout intensively for at least 3 minutes.

Pour the injection grout directly into the pump or hold in a clean container. If left standing for any time, shake and re-mix intensively but still keeping within the normal pot-life of 2 hours.

APPLICATION METHOD / TOOLS

It may be injected with any standard equipment manufactured for cement injections.

Injection pressure: 3 - 8 bar.

Vertical injection areas must be grouted from the bottom upwards. To allow secondary injection, the freshly injected length of SikaFuko® system must be well vacuumed with clean water.

CLEANING OF TOOLS

Clean all tools and application equipment according to the PDS of Sika®.Injection Cleaning System.

LIMITATIONS

With Sika® InjectoCem®-190 cracks with a width > 0.2 to max. 3.0 mm can be filled and sealed. In case of strongly water infiltration, pre-sealing with e.g. Sika® Injection-101 RC is necessary.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

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.

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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