

Sika® InjectoCem-190

Micro cement injection grout

Product 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 Sika® Injectoflex-System
- Filling of voids
- Final rigid cementitious sealing of cracks
- Encasement of filler joists

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
- No VOC
- Low odour

Product Data

Form

Appearance

Part A: in powder form as a micro cement
Part B: in liquid form with corrosion inhibitors

Packaging

Pre-batched units of 8.25 kg (Part A+B)
Part A: 2 bags each containing 2.5 kg powder
Part B: Pail of 3.25 kg liquid

Both parts packed in plastic pail.

Storage

Storage Conditions / Shelf-Life

12 months from date of production if stored in unopened, undamaged and sealed original packaging, in dry conditions at temperatures between +5°C and +30°C.



Technical Data

Chemical Base	Modified micro cement
Density	1.70 kg/l mixed (at +20°C)
Viscosity	~ 100 mPa·s (at +20°C)
Change of Volume	<i>Shrinkage</i> Dry storage: ~ 4.5‰ Wet storage: ~ 0.25‰

Mechanical / Physical Properties

Compressive Strength

After 1 day	~ 40 N/mm ²
After 7 days	~ 44 N/mm ²
After 28 days	~ 47 N/mm ²

System Information

Application Details

Consumption/ Yield	Pre-batched units of 8.25 kg produce approx 5 litres of injection grout.
Substrate Preparation	<i>Requirements:</i> Sound, clean, free from oil and grease, old coatings or other contaminants. <i>Pre-treatment for good bond:</i> Prepare concrete, mortar, stone etc with high pressure water jetting, or mechanical means. Clean cracks of dust with compressed air.

Application Conditions / Limitations

Substrate Temperature	+5°C min. / +35°C max.
Ambient Temperature	+5°C min. / +35°C max.
Substrate Moisture Content	Normally concrete is "Damp". If it is dry, flush relevant area of concrete is first with water.

Application Instructions

Mixing	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)
Mixing Time	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	<p><i>Injection</i></p> <p>It may be injected with any standard equipment manufactured for cement injections (e.g. Aliva injection pump AL-1400).</p> <p>Injection pressure: 3-8 bar</p> <p>Vertical injection areas must be grouted from the bottom upwards.</p> <p>Flush out voids and cracks with water to remove debris and dampen the concrete.</p> <p>To allow secondary injection, the freshly injected length of Sika® Injectoflex-System must be well flushed with clean water.</p>
Cleaning of Tools	Clean all tools and application equipment with clean water immediately after use. Hardened/cured material can only be mechanically removed.
Potlife	2 hours max. (at +20°C)
Notes on Application / Limitations	With Sika® InjectoCem-190 cracks with a width > 0.2 to max. 3.0 mm can be filled and sealed.
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.
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.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet 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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