

Sika® InjectoCem-190

Micro Cement Injection Grout

Product Description Sika® InjectoCem-190 is a two component injection grout based on micro cement ($d_{95} < 9.5 \mu\text{m}$) with added corrosion inhibitors. Suitable for use in hot and tropical climates

Uses Sika® InjectoCem-190 is used for:

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

It also provides simultaneous corrosion protection of steel reinforcement.

Advantages

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

Product Data

Type Modified Micro cement

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

Packaging Pre-batched units of 8.25 kg (Components A+B)
Component A: 2 bags each containing 2.5 kg powder
Component B: Pail of 3.25 kg liquid
Both components packed in a plastic pail

Storage Condition Store in moisture tight, closed and undamaged original containers in dry conditions at temperatures between +5°C and +30°C away from direct sunlight

Shelf life 12 months minimum from production date if stored in original unopened packaging

Technical Data

Density (at +20°C) Approximately 1.3 kg/lit

Viscosity (at +20°C) Approximately 100 mPa . s

Change of Volume Shrinkage:
Dry storage: Approximately 4.5%
Wet storage: Approximately 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 Details

Consumption/ Yield	Pre-batched units of 8.25 kg produce approximately 5 litres of injection grout.
Substrate Preparation	The substrate should be sound, clean, free from oil and grease, old coatings or other contaminants. Concrete, mortar, stone etc should be thoroughly prepared by high pressure water jetting, or mechanical means such as grinding, chiselling etc. Cracks must be cleaned with compressed air to remove all dust.
Substrate Temperature	+ 5°C minimum / + 35°C maximum
Ambient Temperature	+ 5°C minimum / + 35°C maximum
Substrate Humidity	Concrete substrate must be "Damp". If it is dry, flush relevant area of concrete first with water.
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 maximum 0.2 lt water may be added)
Mixing Time	Pour liquid component B into a suitable container. Mix with a colloidal mixer at 2'800 rpm and slowly, continuously add component 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	Injection: Sika® InjectoCem-190 may be injected with any standard equipment manufactured for cement injections (e.g. Aliva injection pump AL-1400). Injection pressure: 3-8 bar Vertical injection areas must be grouted from the bottom upwards. To allow secondary injection, the freshly injected length of Sika® Injectoflex-System must be well flushed with clean water.
Cleaning of Tools	Clean all tools and application equipment with clean water immediately after use. Hardened/cured material can only be mechanically removed.
Pot life (at +20°C)	2 hours maximum
Remarks	With Sika® InjectoCem-190 cracks with a width > 0.2 to maximum 3.0 mm can be filled and sealed. In case of strong water infiltration, pre-sealing with Sika® Injection-20 or Sika® Injection-60 is necessary.
Notes	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.

Safety

For information and advice on the safe handling, storage and disposal of chemical products, users should 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 should 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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