



Sika® InjectoCem 190

Micro Cement Injection

Technical Data Sheet

DESCRIPTION

Sika InjectoCem 190 is a two component injection suspension on micro cement with integrated corrosion inhibitors.

USES

- * Void filling around filler joints.
- * Filling of voids.
- * Sealing of cracks and fissures.
- * For exterior and interior use.

ADVANTAGES

- * Corrosion protection of reinforcement and steel sections.
- * Pre batched for quality.
- * Water may be added to improve flowability.
- * Contains corrosion inhibitors.
- * Easy to mix and apply.
- * Excellent bond to concrete.
- * Good flow properties.
- * Contains no chloride admixtures.
- * Suitable for use with the **Sika Injectoflex System**.

Technical Data (typical)

Mixed colour:	Grey
Mixed wet density:	1.70 kg/litre
Application temperature:	+5°C min, +25°C max (Substrate and ambient)
Crack width range:	>0.2 mm
Injection pressure:	3 - 8 bar

MECHANICAL PROPERTIES

Compressive strength: (N/mm ²)	1 day	7 days	28 days
	40	44	47
Shrinkage:			
Dry cured	0.45%		
Wet cured	0.025%		

Pot life: 2 hours max
(@20°C)

All above values are approximate.

CONCRETE SUBSTRATE PREPARATION

Remove water contained in cracks, voids and fissures, then purge with clean water or **Sika InjectoCem 190** until water or micro-cement runs contaminant free.

MIXING

Pour liquid (component B) into suitable mixing vessel. Mix with colloidal mixer at 4,000 rpm and slowly, continuously add the powder (component A). Upto 0.2 l of water may be added at this stage. Increase mixing speed to 8,000 rpm. Mix suspension intensively for at least 3 minutes.

Pour injection suspension directly into pump or keep ready in clean container. If left standing, re-mix again before injection.

INJECTION

Injection suspension may be injected into substrate after any necessary capping/sealing with any standard dispensing equipment manufactured for cement injection work.

IMPORTANT CONSIDERATIONS

- * Crack injection is a specialist technique. The success is dependent on the resin, pressure, spacing of ports and equipment used. Therefore, it is recommended a specialist injection contractor is used.
- * At higher temperatures pot life will be shortened.
- * At lower temperatures the material will become more difficult to inject and takes longer to harden.
- * Wear suitable protective clothing, gloves and eye protection.
- * Establish cracks are static. Moving cracks should be treated as movement joints.
- * Take cores at location of cracks to clarify penetration and method of injection.
- * Trials should be undertaken to establish suitability of resin, spacing of injection ports, injection equipment and pressure of injection.
- * Do not exceed water dosage level.

CLEANING

Remove **Sika InjectoCem 190** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

1.7 kg/m²/mm (1.7 kg/litre)
Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 12 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

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 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 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 Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

SIKA LIMITED

Watchmead, Welwyn Garden City, Hertfordshire, AL7 1BQ

Tel: 01707 394444 Email: sika@uk.sika.com

Fax: 01707 329129 www.sika.com

