

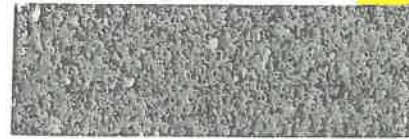
Acid-gel for the production of acid-washed concrete surfaces

FISTER, INC.
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NITRATE-FREE formula

Product description:

MICROGEL® contains acidic, surface-active ingredients to obtain a light micro-exposure respectively lightly roughened surfaces on concrete surfaces after demoulding.



Fields of application:

For the production of acid-washed, natural stone-like concrete surfaces, especially by architectural precast concrete and artificial stone. **MICROGEL**® can also be used for repair/cosmetic of irregular spots on micro-exposed exposed aggregate surfaces.

Advantages:

MICROGEL® creates very evenly etched concrete surfaces due to its gel-like characteristics, which makes **MICROGEL**® also suitable for applications onto vertical surfaces. If compared to standard acids, like hydrochloric acid, where irregularities caused by run-downs or punctual over-concentration can hardly be avoided due to the immediate and uncontrollable reaction of those low-quality acids, **MICROGEL**® works uniformly and is designed for architectural concrete requirements. Further important application advantages are the reduction of consumption per application and also the number of application repeats required in order to achieve the desired results. The high viscosity of **MICROGEL**® allows improved quality control and high reliability and accuracy in the final result performance, no matter if vertical or horizontal application is chosen.

Application:

For best performance, the concrete to be treated should be between 1 and 5 days old. Before the **MICROGEL**® is applied the concrete should be saturated well with water. The 'ready for use' **MICROGEL**® can be applied by brushing into the required surfaces. The application via sprayer is also possible, provided that the sprayer is suitable for the high viscosity resp. the acid-content of the **MICROGEL**® (see "Available versions" below). The reaction phase is optically easy to recognise, can be intensified by manually brushing/massaging the **MICROGEL**® into the concrete surface, but should always be determined in pilot trials. The duration of the reaction phase depends on a number of different factors and usually lasts between approx. 5 – 15 minutes per application. Any possibly remaining irregularities or insufficient roughening depths can be regulated through a repeated partial or complete treatment. On completion of the treatment, the whole concrete element should be washed with plenty of water (preferably warm water) using a high pressure water jet. Please ensure that no residues remain.

We then recommend the application of **COLORFRESH**® *Intensiv* or **COLORTEC**® *Max* in order to protect the enhanced surface in the long term and to suppress the potential risk of efflorescence.

Available MICROGEL®-versions:

- Version „spezial“ – high efficiency, low-odour
- Version „V02“ – for vertical spray-application
- **NEW:** Version „free“ – odour-free, environmentally optimised
- Version „forte“ – maximum efficiency
- **NEW:** Version „connect“ – high viscosity

MICROGEL® „V02“ and „connect“ are especially developed for vertical application with optimised characteristics, particularly considering viscosity, adhesion and reaction speed. For spray applications HEBAU has developed a reasonably priced sprayer, which allows an accurate and non-misting application (suitable for all **MICROGEL** versions, except for „connect“). This sprayer is available from HEBAU on request.



Recommendations:

Compared to competing products and due to the use of highest-quality active-ingredients in **MICROGEL**®, the wash-off/processing water is **nitrate free**. Competing products should also be checked from this aspect. If **MICROGEL**® is applied in accordance with the directions for use, the acidic ingredients in the **MICROGEL**® and the alkaline cementitious concrete surface together neutralize each other. Therefore, providing sufficient water is used to wash off the **MICROGEL**®-treated concrete surfaces, the **MICROGEL**® will probably not lead to a significant alteration of the pH-value of this water. If there are concerns, we recommend checking the pH-value of the water, e.g. with litmus paper.

Consumption:	Packaging:	Storage:
Depending on the absorbency, strength and age of concrete surface, approx. 200-300 gr/sqm per application.	20 kg plastic pail 18 kg with version "free"	Store in a cool and dry place in original closed containers. Can be stored for approx. 12 months in original containers.

Please read information printed on label and safety-data-sheet and contact HEBAU if you have any questions. Pilot tests are necessary. Due to the large number of different production circumstances we can not give a guarantee. 26.02.13/hm/eb

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MICROGEL®

Instructions for use of MICROGEL



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Das Produkt und sein Anwendungsgebiet:

MICROGEL® is an acid based gel for the production of micro-etched effects on concrete surfaces. It is a post-finish, best applied within 1 – 3 days of concrete pour and can be used for the creation of slip resistant surface, decorative micro-exposure or preparation as a bonding key for micro-topping layers onto floors or walls. **Fields of application:** In precast manufacture: for micro-etched and lightly anded ecorative effects. For on-site construction: as preparation for microtop surfaces and as an attractive finish to coloured and decorative concrete.

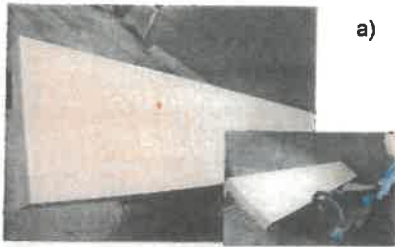


Welches Material/Hilfsmittel benötige ich für die Anwendung?

- Concrete surface
1 – 5 days old
- Water
- High-pressure water jet
- Specially adapted sprayer for use with MICROGEL® formulations
- Brush
- Rubber gloves
- Safety glasses



Application:



- a) Please define the required quantity before placing the order. The consumption depends on the absorbency and age of the concrete surface and is, approx. 200 gr/sqm. The concrete surface needs to be saturated with water prior to application of MICROGEL. Pictures show horizontal (left) and vertical (right) application method.



- b) The surface should be well saturated with water before applying our **MICROGEL**. **MICROGEL** can be applied through a brush or a sprayer. After application the **MICROGEL** onto the concrete surface, the active ingredients should be given a few minutes time to react completely in which you might brush the surface so that the **MICROGEL** can spread and react uniformly. Based on the concrete strength it might be necessary to suitable to apply the **MICROGEL** a second time.



- c) At the end of the treatment the panel should be thoroughly washed with a high-pressure water-jet and plenty of fresh water, if possible with warm water.
- d) **Detailed view of the surface!** As for all architectural concrete surfaces, we recommend to protect the surface immediately finishing the surface with one of our protective agents of the **COLORTEC/COLORFRESH** product line.



Product Combination -
ARCON Fluid SCC: for improved workability, control of aggregate distribution, enhanced compaction
+ WABICON HP mould release: for best MICROGEL performance
+ MICROGEL® or MICROGEL®/ColorFIX NSL: application for surface decoration
+ COLORFRESH intensiv or COLORTEC Max. for penetrating dirt and stain protection