
BoostGel®

Technical Specifications



Pro polymer latex to improve the elasticity, adhesion, waterproofing and impact resistance of adhesive gels.

Product description Highly elastic synthetic latex in aqueous dispersion, based on acrylic polymers.
Suitable for installation in swimming pools and on underfloor heating systems

Intended use Liquid additive for use in the mixing of Class C1 cementitious adhesives (see Litokol X-Fix data sheet) as a partial or total replacement for mixing water.
The use of the additive gives the adhesive high deformability and improves its performance, making it suitable for demanding applications (see summary table).

Product specifications	Appearance	Liquid
	Colour	White
	Responsible Packaging	10 kg and 20 kg recycled plastic jerrycans
	Shelf life	24 months in original packaging in a dry place. Keep away from frost.
	Customs heading	39069000

Mixing ratio	Adhesives	C1	C2 S1	C2 S2
	20 kg (1 bag) X-Fix White	5.9 l of water	2.95 l of water + 2.95 kg of BoostGel	5.9 kg of BoostGel
	20 kg (1 bag) X-Fix Grey	5.3 l of water	2.65 l of water + 2.65 kg of BoostGel	5.3 kg of BoostGel

Technical Specifications

Compliance with EN 12004 – ISO 13007	C2 S2	As a substitute for mixing water
Initial bond strength after 28 days	$\geq 1.0 \text{ N/mm}^2$	EN 1348
Adhesion after immersion in water	$\geq 1.0 \text{ N/mm}^2$	EN 1348
Adhesion following heat exposure	$\geq 1.0 \text{ N/mm}^2$	EN 1348
Adhesion after freeze-thaw cycles	$\geq 1.0 \text{ N/mm}^2$	EN 1348
Open time	$\geq 0.5 \text{ N/mm}^2$ after 20 minutes	EN 1346
Transverse deformation	$\geq 5 \text{ mm}$	EN 12002
Alkali resistance	Excellent	
Solvent resistance	Excellent	
Acid resistance	Low	
pH	7 - 8	

Application Specifications

Mixing ratio (with a 20 kg bag of X-Fix)	Secondary use
Consistency of the mix	Creamy mortar
Dough proving time	5 minutes
Brookfield viscosity (sp 6–20 rpm)	20–30 mPa·s
Solid residue	35%
Pot life	About 8 hours
Specific gravity of the mixture	Secondary use
Thickness	< 10 mm
Application	Notched trowel
Permissible application temperatures	From +5°C to +30°C
Drying time for grouting	Wall: 4–8 hours – Floor: 24 hours
Ready for foot traffic	24 hours
Commissioning	14 days
Operating temperature	From -30°C to +90°C
Cleaning of equipment	With water when the product is fresh. Mechanically once the product has hardened.
Coverage	Secondary use

Preparation of the mix

Pour the correct amount of liquid, depending on the application, into a clean container and slowly add the powder, mixing with an electric drill fitted with a mixing paddle until a smooth, lump-free mixture is obtained. Leave the mixture to rest for 5 minutes and stir briefly for a few seconds. Do not add any further liquid to the mix once setting has begun. Mixing by hand is not recommended.

Application

To ensure perfect adhesion of the adhesive to the substrate, apply a thin, even coat of the mixture using the smooth side of the trowel and, immediately afterwards, apply the desired thickness using the notched side. The notching of the trowel must be chosen according to the size of the material to be laid and the substrate. In accordance with standard UNI 11493-1, use the double-coating technique, applying the adhesive to the back of the tiles as well to ensure complete wetting, for outdoor installations or in areas subject to particularly high stress. To ensure complete transfer of the adhesive to the back of the tiles, they must be laid onto the still-fresh adhesive whilst applying sufficient pressure. The open time under standard temperature and humidity conditions is approximately 30 minutes. Very hot or windy conditions, or highly absorbent substrates, can drastically reduce this to just a few minutes; it is therefore advisable to check frequently that the adhesive has not formed a surface film. In accordance with the UNI 11493-1 standard, tiles must be laid with joints of a width appropriate to

their size. Take account of any partition or structural joints and provide suitable expansion, partition and perimeter joints.

Warnings

Apply the product at temperatures between +5°C and +30°C
Do not apply the product to damp surfaces or those prone to rising damp
Observe the mixing ratio
The open time of the cementitious adhesive mixed with Latexkol is shorter than that of the adhesive mixed with water alone
As the additive is a latex in aqueous dispersion, it is sensitive to freezing. Transport and store the product at temperatures not below +5°C
Refer to the summary table in the product data sheet to make the correct choice
Do not use for applications not listed on this technical data sheet
For further information, please contact Litokol's Technical Customer Service on +39-0522-622811 or via customercare@litokol.com

Safety Information

For the safe use of our products, please refer to the latest version of the Safety Data Sheet, available at www.litokol.com
PRODUCT FOR PROFESSIONAL USE

Legal notices

The information and specifications set out in this technical data sheet are based on our best experience. However, as we are unable to directly influence site conditions or the execution of the works, these are general guidelines which do not in any way bind our Company. We therefore recommend carrying out a preliminary test to verify the product's suitability for the intended use; in any case, anyone intending to use it is required to determine whether or not it is suitable for the intended use and, in any event, assumes all liability that may arise from its use. Always refer to the latest updated version of the Technical Data Sheet, available on the website www.litokol.com

Specification item

#Water-based latex, such as BoostGel® by Litokol Lab S.p.A., will be used as an additive in mineral adhesives for the installation of ceramic tiles, porcelain stoneware and marble to improve flexibility and adhesion.
Replacing all the water results in an average yield of ≈ ____ kg of BoostGel® per 20 kg bag of adhesive. Add water if necessary to achieve the desired consistency.

Product details **No. 542**
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