COMPAKTUNA®

FLOWJOINT® LF

Low-shrinkage grout for cobblestones, pavers, etc.

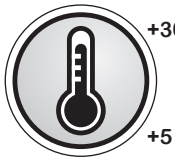












CHARACTERISTICS

FLOWJOINT® LF is a ready-to-use, fast-setting, low-shrinkage grout used for grouting cobblestones, non-porous pavers, blue stone, and pavings where early loading and commissioning are desired. FLOWJOINT® LF offers good adhesion to cobblestones and high compressive strength. It is composed of special hydraulic binders, quartz sands, and high-quality additives. FLOWJOINT® LF can be used for joints ranging from 10 to 30 mm. It is a ready-to-use powder product that, when mixed with water, forms a semi-liquid to plastic grout with high mechanical resistance, which can also be applied on non-permanently damp substrates. Due to its semi-liquid consistency, FLOWJOINT® LF is also suitable for grouting cobblestones on slopes with an incline of up to 10%. FLOWJOINT® LF is suitable for the repair of existing grout work.

FLOWJOINT® LF can be classified as CG 2 W A.

Technical characteristics	
Working time	±30 to 45 minutes
Setting time	±2 hours
Compressive strength	After 24 hours: approx. 8 MPa (N/mm²)
Load-bearing capacity	Foot traffic after 24 hours (at +20°C) Vehicle traffic after 7 days (at +20°C)

Technical characteristics	Meets the requirement according to NBN EN 13888 MPa (N/mm²)
Increased wear resistance (A)	≤ 1.000 mm³
Flexural strength after dry storage	≥ 2,5
Flexural strength after freeze-thaw cycles	≥ 2,5
Compressive strength after dry storage	≥ 15
Compressive strength after freeze-thaw cycles	≥ 15
Shrinkage	≤ 3 mm/m
Reduced water absorption after 30 minutes (W)	≤ 2 g
Reduced water absorption after 240 minutes (W)	≤ 5 g

Mixing ratio	Consumption	Packaging
±3 L to 3,50 L water per 25 kg bag (±12 to 14% water)	±12 kg/m², depending on the joint depth and the dimensions of the paving product.	25 kg PE
Colour	**Processing time**	**Application temperature**
Grey and beige	±30 to 45 min.	+5°C to +30°C (substrate and environment) Do not apply in direct sunlight.

FLOWJOINT® LF

DIRECTIONS FOR USE









1. Substrate

- Work should always be carried out on a clean, stable, and suitable substrate. The substrate must be sufficiently old. The surface must be free from oil, grease, dust, etc. Any loose parts must be removed.
- When repairing old pavings or grout work, existing joints and any moss present must be properly removed.
- Pre-wet the surface with clean water, and remove any excess water. Avoid puddling.
- Ensure an appropriate slope and drainage for the paving. The elements to be grouted should be securely in place.

2. Application

FLOWJOINT® LF is mixed to a thick, liquid consistency with approximately 12% to 14% water, meaning 3 L to 3.5 L of water per 25 kg bag, depending on the desired consistency. Pour the required amount of water into a mortar tub for each 25 kg bag, and slowly and evenly add the dry grout. Mix thoroughly with a slow-turning mixer or concrete mixer for 5 minutes until a lump-free, homogeneous, and liquid grout is obtained. Allow the grout to rest for 1 minute before applying. Only mix as much product as can be processed within 30 minutes. Once FLOWJOINT® LF is mixed with water, you have up to 30 minutes to apply the product. Pour the grout into the joints until they are completely filled. Simply pour the grout in using a bucket and level it with a rubber squeegee. Prevent the grout from hardening on the surface by keeping it wet. As soon as the grout begins to harden in the joints (approximately 60 minutes at +20°C), rinse the surface with clean water while removing excess product with a brush or rubber squeegee. Do not leave water on the joint after the final cleaning. A sponge machine can be used, if necessary, to clean with minimal water. Avoid overly deep hollow joints. Clean the tools with water. Load-bearing: foot traffic after 24 hours (at +20°C), vehicle traffic after 7 days (at +20°C).

REMARKS

- The minimum depth of the joints is 30 mm. For heavy loads, a joint depth of 40 mm is recommended. The minimum joint width is 10 mm, and the maximum width is 30 mm.
- The application temperature is between +5°C and +30°C (for both the substrate and the environment).
- Do not apply in direct sunlight.
- FLOWJOINT® LF is temperature-dependent; higher temperatures shorten the working time, while lower temperatures will delay the commissioning of the pavement.
- During curing, protect FLOWJOINT® LF from frost, precipitation, strong winds, and direct sunlight.
- FLOWJOINT® LF is a ready-to-use product; no cement, plastic dispersion, sand, or other additives should be added.
- FLOWJOINT® LF is not suitable for sealing expansion joints. Use FLOWJOINT® FLEX for this purpose.
- FLOWJOINT® LF is a cement-based product. Due to the reaction with water, free lime may form on the surface, depending on the specific site conditions, leading to a more white appearance of the grout. As this lime layer weathers, the color will change over time to gray or beige.
- Avoid the cobblestone surface being trapped in the surrounding structure. Expansion joints in the substrate must be continued through the cobblestone surface. All these joints should be sealed with an elastic polymer that retains its elasticity (FLOWJOINT® FLEX).
- For optimal results, the substrate and laying bed should be sufficiently draining during grouting.
- For colored grouts, the best results are obtained when the ambient and substrate temperatures are between 15°C and 30°C.

PACKAGING

FLOWJOINT® LF is available in gray and beige colors in 25 kg polyethylene bags. The shelf life is 12 months in the original, sealed packaging and stored in a dry place.

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As the applications of our products are diverse, no single application guideline can be laid down. All product data reflect the state of knowledge of our products at the time of publication. Therefore all suggestions and recommendations concerning the use of our products are merely illustrative. Apply the product on a small and insignifi cant spot before starting to use our products to be sure the desired result is obtained. Always ask for the technical sheet of our products. Visit the website www.compaktuna.be. Consult our “technical department” which can be reached for free on the green number 0800/92279. The Dutch text shall be exclusively binding.
Version 10/02/2014. **COMPAKTUNA BV is EN ISO 9001 certified.**

COMPAKTUNA®
Quality & Innovation

A MEMBER OF HOLCIM GROUP

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