

FLEXLOCK SAND G2
FOR PAVER & NATURAL STONE JOINTS UP TO 2"
TDS Revision Date (dd/mm/yyyy): 26/11/2021



TECHNICAL DATA SHEET

Update:

November 15, 2021

Make sure you have an updated data sheet on hand.

Canada and U.S. dial **1-855-847-7767** or (450) 624-1611

Description:

FLEXLOCK SAND G2 is made with a state-of-the-art manufacturing process. Specifically, calibrated sand is mixed with sophisticated intelligent polymers. This new generation of Intelligent Polymers neutralizes haze and dust. No blower is needed and the intelligent polymeric sand requires only one watering. **FLEXLOCK SAND G2** is recommended for a variety of uses including pool decks, patios, footpaths, driveways, parking spaces, pavements, etc. Available in Sandy Beige and Graphite Grey.

Features:

- **No dust, haze free, no blower, one watering**
- **For traditional applications**, Rapid Set and rain safe 15 minutes after water activation
- Can be used for joints up to a maximum of 2" (5 cm)
- ASTM C-144 gradation allows use in even the tightest joints
- **OSHA silica crystalline compliant** (OSHA 29 CFR 1926.1153)
- Works above 32°F (0°C)
- Faster installation time
- Helps prevent weeds and damage caused by burrowing insects.
- Helps prevent erosion due to wind, rain and freeze/thaw cycles.
- Waterproof bags: Lay bag flat on its back, so front of the bag is facing you. Intact pallets can be stored outdoors.
- 15 Year Limited Warranty

Maintenance of paved surface:

When maintaining the paver surface, apply **Gator Shampoo** to clean the entire paved surface including the paver joints. Wash, rinse and remove any residue by using a hose and a watering gun set to shower with the normal maximum water pressure from any residential or commercial building (typically 80 psi/550 kPa).

Clay pavers:

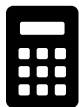
If used on clay pavers, make sure they are 100% dry. Clay pavers tend to hold moisture which can prematurely activate the **FLEXLOCK SAND G2** while the sand is being spread over the paver surface, leaving a residue. Always apply on a test area before using the **FLEXLOCK SAND G2** on clay pavers.

Moss:

FLEXLOCK SAND G2 will not cause nor prevent moss, mold or mildew. Moss, mold and mildew are caused by certain on-site conditions including excess moisture, shade, absence of ventilation, inadequate cleaning or maintenance, presence of soil or other organic debris left on the product.

Coverage:

Quantity required depends on the shape and size of the concrete pavers as well as the width of the joints.



Access our
online sand
calculator

| Per 50 lb (22.7 kg) bag (Paver 2-3/8" (6 cm) in height) | NARROW JOINTS | WIDE JOINTS |
|--|-----------------------------|-----------------------------|
| | 1/8" to 3/8" (3-9mm) | 3/4" to 1-1/4" (19-32 mm) |
| Sandy Beige & Graphite Grey | 65-85 sq. ft. (7-7.9 sq.m.) | 22-42 sq. ft. (2-3.9 sq.m.) |

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IMPORTANT INSTALLATION NOTES FOR G2

- A Always refer to the latest **FLEXLOCK SAND G2 Technical Data Sheet (TDS)** at Flex-lock.com before installing **FLEXLOCK SAND G2**.
- B Pavers and slabs must be installed according to **ICPI Tech Spec #2** traditional base (www.icpi.org) before **FLEXLOCK SAND G2** installation.
- C Pavers' sides and top surfaces must be completely dry. Do not apply if the paver surface is damp or wet. The damp or wet surface will cause **FLEXLOCK SAND G2** to prematurely activate and will lead to the polymers sticking on the paver surface.
- D Do not apply if the paver joints are damp or wet. This will prevent the **FLEXLOCK SAND G2** from properly sliding into the joints and obtaining very densely packed joints, which is critical to the product's performance.
- E Temperature must be above 32°F (0°C) in dry conditions and no rain for at least **15 minutes after water activation**.
- F For all paver surfaces, and particularly around in-ground pools, there must be a minimum slope of 1/8 inch (3 mm) per linear foot away from the edge of the pool or structures to ensure optimal performance of the **FLEXLOCK SAND G2**.
- G For the pool coping units, it is mandatory to use mortar in the joints. For the rest of the paver installation around the pool, you can use **FLEXLOCK SAND G2**.
- H Do not sweep **FLEXLOCK SAND G2** over asphalt.
- I **FLEXLOCK SAND G2** level, must be at least 1/8 inch (3 mm) below top of paver's surface or 1/8 inch (3 mm) below the chamfer or erosion may occur. The filled and cured polymeric sand joints should never be in direct contact with foot traffic or tire.
- J For textured or pre-finished surfaces, we recommend to remove all the sand from the paver or slab surface prior to using the plate or roller compactor.

Please note:

All pavers must be completely interlocked for vehicular and pedestrian use. If pavers are fanned they are not considered interlocked. **FLEXLOCK SAND G2** can be applied when pavers are installed directly on open graded aggregates that lock or choke themselves. This means the polymeric sand will not migrate through the voids. Do not apply **FLEXLOCK SAND G2** when the pavers are installed directly on aggregates with large voids.

THIS CROSS-SECTION REPRESENTS THE HEIGHT OF POLYMERIC SAND FOUND IN THE JOINTS



**PAVERS OR NATURAL STONES
WITHOUT CHAMFER**



**PAVERS OR NATURAL STONES
WITH CHAMFER**

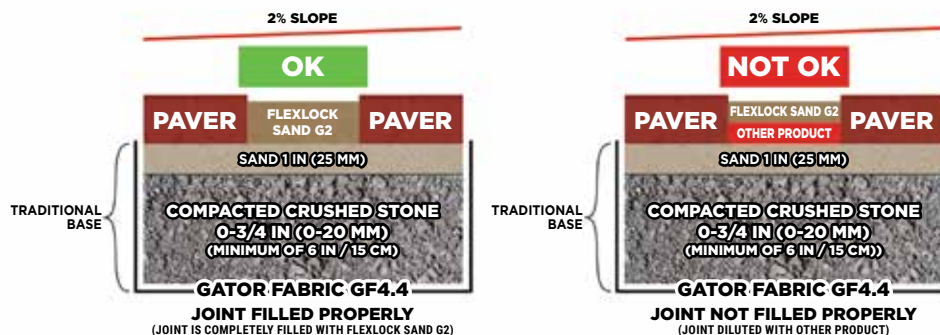
POLYMERIC SAND REQUIREMENTS
Minimum joint width: 1/8" (3 mm)
Maximum joint width: 2" (5 cm)
Minimum joint depth: 1 1/2" (38 mm)



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REQUIRED SUB-SURFACE PREPARATION

FLEXLOCK SAND G2 is recommended for a variety of uses including pool decks, patios, footpaths, driveways, parking spaces, pavements, etc. The concrete pavers must be installed on a traditional base system composed of 2 layers. The upper layer can have a maximum of 1 inch (25 mm) of bedding sand. The lower layer must have a minimum of 6 inches (15 cm) of crushed stone compacted at 98 % Proctor density. (See diagrams below)



**NEVER USE FLEXLOCK SAND G2 WHEN PAVERS ARE INSTALLED ON A CONCRETE SLAB (OVERLAY).
INSTEAD, USE FLEXLOCK ULTRA SAND G2.**



FLEXLOCK SAND G2 INSTALLATION STEPS (FOR A NEW PAVER SURFACE)

- 1 Spread **FLEXLOCK SAND G2** with hard-bristle broom. Make sure the **FLEXLOCK SAND G2** completely fills the joints. Do not use with other materials in the joints. Leave a layer of **FLEXLOCK SAND G2** on the surface to aid in the vibrating and consolidation of **FLEXLOCK SAND G2** into joints. For textured or pre-finished surfaces, we recommend to remove all the sand from the paver or slab surface prior to using the plate or roller compactor.
- 2 Vibrate the **FLEXLOCK SAND G2** into the paver joints using a vibratory plate compactor. A rubber pad is recommended. A roller compactor is best for slab installation. Joints sand level, must be at least 1/8 inch (3 mm) below top of paver's surface or 1/8" (3 mm) below the chamfer. It is best to compact in several directions to ensure there are no air gaps or voids in the joints. Repeat steps 1 and 2 to ensure joints are filled and consolidated. Narrow joints require more care to completely fill.
- 3 Sweep off excess **FLEXLOCK SAND G2** from the paved surface, first with a hard-bristle broom, then a soft-bristle broom. Take care to leave the height of **FLEXLOCK SAND G2** at least 1/8 inch (3 mm) below top of paver's surface or 1/8 inch (3 mm) below the chamfer.

IMPORTANT 30-30 WATER ACTIVATION NOTES FOR G2

- A Use a watering gun connected to a hose. Set to shower.
 - B Watering must be started at the lowest point of the paved surface.
 - C Never allow paved surface to dry out during the water-activation phase.
 - D Do not allow **FLEXLOCK SAND G2** to wash out of joint.
 - E Shower for a minimum of 30 seconds for 30 sq. ft. (3 sq.m.) or until the **FLEXLOCK SAND G2** repels the water and the water starts to accumulate on the joints.
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FLEXLOCK SAND G2 INSTALLATION (FOR AN EXISTING PAVER SURFACE)

Remove existing jointing material. Be careful not to disturb the bedding material under the pavers. Pavers must be completely dry before installing a minimum of 1 1/2" deep into the joints. **FLEXLOCK SAND G2** level, must be at least 1/8 inch (3 mm) below top of paver's surface or 1/8 inch (3 mm) below the chamfer or erosion may occur. The filled and cured polymeric sand joints should never be in direct contact with foot traffic or tires. Follow **FLEXLOCK SAND G2** installation steps 1 to 4 for a new paver surface.

| TYPICAL PROPERTIES | | | | | | |
|------------------------|--|--------------------------------------|-------------------|--|--------------------------|--------------------------|
| Test | European Method | North American Method | Cure | Units European (American) method | Typical Value* | |
| | | | | | minimum | maximum |
| Sand Gradation | DIN EN 13139 | ASTM C-144 | N/A | N/A | Compliant | Compliant |
| Penetration resistance | ISO 1920-14 | ASTM C-403 | 7 days 28 days | N/mm ² (PSI) | 1,8 (250) 19 (2760) | 2,6 (370) 39 (5630) |
| Water Absorption | BS EN 12808-5 30 minutes 4 hours | ASTM D-1403 30 minutes 4 hours | 28 days | g (g/100cm ²) | 0,15 (1,0) 0,31 (2,0) | 0,23 (1,4) 0,43 (2,7) |
| Erosion resistance | ISO 19392-3 | ASTM D-7538 | 15 minutes | erosion % | <5 | 5 |
| Flexural strength | BS EN 13892-2 | ASTM C-348 | 7 days 28 days | N/mm ² (PSI) | 0,6 (80) 2,4 (350) | 0,9 (130) 3,5 (510) |
| Compressive strength | BS EN 13892-2 | ASTM C-109 | 7 days 28 days | N/mm ² (PSI) | 1,1 (160) 8,7 (1260) | 2,3 (340) 11 (1600) |

* Will vary depending on the color of the sand

| Packaging: | Product | Size | Units per Pallet |
|------------|---|-----------------|------------------|
| | FLEXLOCK SAND G2 - Sandy Beige | 22.7 kg (50 lb) | 56 |
| | FLEXLOCK SAND G2 - Graphite Grey | 22.7 kg (50 lb) | 56 |

15-YEAR LIMITED WARRANTY (RESIDENTIAL)

Please note that this limited warranty applies only when the product is used for residential purposes exclusively (home owners or contractors using the product for single or multi-unit dwellings that are exclusively for residential use). The manufacturer cannot guarantee results as it has no control over surface and sub-surface preparation and product application. (Proper installation of pavers or slabs to ensure long-term stability of work, including granular foundation of certified crushed stone of 0-3/4 inch (0-20 mm) (minimum of 6 inches/15 cm), bedding sand layer (maximum of 1 inch/25 mm) and appropriate installation of reinforced edging in accordance with above specified method for applying product.) However, for a period of 15 years from purchase, the manufacturer agrees that if the product is proven to be defective, and on the condition that it was installed pursuant to the method of application of surface and sub-surface preparation described above, then the manufacturer agrees to refund the purchase price. Proof of purchase is required for any claim.

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**EXCLUSION OF RESPONSIBILITY**

THE PARTIES AGREE THAT REFUND OF THE PURCHASE PRICE AS STATED IS THE ONLY OBLIGATION OF THE MANUFACTURER. IN ALL EVENTS, THE MANUFACTURER SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES OR COSTS WHATSOEVER, (INCLUDING REMOVAL OR REINSTALLATION OF SAND OR PAVERS) DIRECT OR CONSEQUENTIAL. TO THE EXTENT PERMITTED BY LAW, THE MANUFACTURER EXCLUDES ANY IMPLIED WARRANTY OF QUALITY, MERCHANTABILITY OR FITNESS FOR PURPOSE. ALLIANCE DESIGNER PRODUCTS INC. excludes any responsibility whatsoever for the presence of moss, mold, mildew, or similar factors that may occur on the product after its installation. The presence of moss, mold or mildew is caused by the particular on-site conditions, including excess moisture, shade, absence of ventilation, inadequate cleaning or maintenance, presence of soil or other organic debris left on the product after installation. ALLIANCE DESIGNER PRODUCTS INC. excludes any responsibility for use of FLEXLOCK SAND G2 for any installation not installed to manufacturer's specifications and [ICPI Tech Spec #2](#).

**15 YEAR
LIMITED WARRANTY****WATER
PROOF X
BAG**

**NO DUST • HAZE FREE • NO BLOWER • ONE WATERING
RAIN SAFE AFTER 15 MINUTES**