

RG+ Polymeric Sand for pavers

UPDATE

December 21, 2022

Make sure that you have an up-to-date technical data sheet in hand by consulting our website: techniseal.com
 U.S.A. and Canada: dial 1 800 465-7325
 Others: dial (514) 523-8324 (Canada)

APPLICATIONS

- General use
- For pavers made of concrete, natural stone, etc.†
- Public roads: pedestrian crossings, walkways, parking areas, etc. ¹
- Residential: driveways, walkways, patios, etc.¹

PROPERTIES

- Inhibits weed growth
- Deters ants and other insects
- Eliminates joint erosion – water, frost heaving, wind, power washing, etc.
- Fast-setting, water resistant 90 minutes after installation
- Stabilizes paver installations - follows movement

DESCRIPTION

Issued from the latest generation of polymers, Techniseal® RG+ becomes water resistant quickly after activation. Designed to make joint stabilization easier than ever, RG+ Polymeric Jointing Sand is a high-tech mix of graded sand (ASTM C-144) and binder, specially formulated for the filling of narrow or wide joints when installing pavers, slabs or natural stones, or when replacing existing joints. It is ideal for surfaces exposed to light vehicular traffic, such as small commercial parking lots, driveways, terraces, backyards, garden paths, access roads, etc.¹. Easy to use, RG+ is applied dry; it starts to set a few minutes after wetting, quickly becoming resistant to erosion due to water (rain, splashes, sprinklers, etc.). Once dry and polymerized, Techniseal® RG+ polymeric sand also resists insect invasion and inhibits weed growth. Remaining flexible, it follows the movements of pavers or slabs.

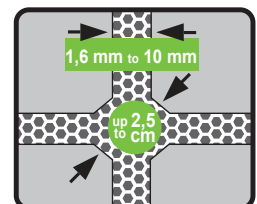
Minimum joint width: 1.6 mm (1/16")

Maximum joint width: 25 mm (1")

Minimum joint depth: 4 cm (1.5")

¹For high-humidity areas, false or wide joints (more than 10 cm (4")), areas exposed to heavy traffic such as large commercial parking lots, crosswalks, public ways, etc. or for steep sloped surfaces or surfaces exposed to large amounts of standing water, we recommend the use of HP² Polymeric Sand (High-Performance formula).

†Use only on pavers or slabs installed over a drainage bed (sand-set).



DIRECTIONS

BEFORE YOU BEGIN

ALWAYS TEST on a small hidden area of approximately 0.4 m² (4 sq. ft.) to ensure that result meets your expectations (see Warranty).

In order to ensure good cohesion and long-term resistance, jointing sand must imperatively dry completely before being exposed to rain (24 hours minimum). The drying time will be extended in cold or humid weather and for wide joints installations (wider than 13 mm (1/2")). Why? Like paint, polymeric sand must dry completely to polymerize and offer all its advantages. However, jointing sand will be able to withstand unexpected rain 90 minutes after installation.

Installation Conditions:

- Use only on pavers installed over a drainage base and bed (sand-set) as per ICPI recommendations.
- Temperature must be above **0 °C (32 °F)** for 48 hours following installation.
- Surface and joints must be **dry**.
- Sprinkler system must be turned off.
- No rain forecasted for the next 24 hours.

Necessary Tools:

- Street broom with semi-rigid bristles
- Leaf blower
- Spray nozzle and garden hose
- Plate compactor

Compaction Information:

Mechanical compaction is **MANDATORY** when using RG+ Polymeric Sand. Failure to do so may compromise joint integrity and performance. If joint width is greater than 0,6 cm (¼") and mechanical compaction is either not possible or traditionally not used, please use Techniseal's NOCO™ polymeric joint.

Plate compactor such as Multiquip's Mikasa MVB series, Wacker Neuson's VP and WP series, Toro's FP series are examples of models that can be used to ensure proper mechanical compaction. Use of a teflon coated plate or paving pad is important to help protect the surface.

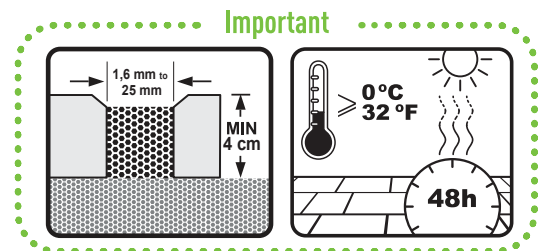
Plate compactor – Ideally, the plate compactor should have a maximum centrifugal force of 25 kN (5,000 lbf) and a frequency between 80 and 100 Hz. The weight of the plate compactor should not exceed 100 kg (220 lb). A smaller machine can be used for repair work and joint replacement.

Drying: To ensure optimal cohesion and long-term stability, RG+ Polymeric Sand must dry completely after initial wetting. Drying time will be shorter if it is warm and dry, and longer if the climate is cool and damp. Product must dry at least 60 minutes before being exposed to unexpected rain.

Traffic: Pedestrian: Immediate / Vehicular: 48 to 72 h. Block access during that period.

CAUTION

- Wear appropriate safety gear.
- Product must dry at least 60 minutes before being exposed to unexpected rain.
- **To obtain optimal performances, it is recommended to plan for 24 hours without rain.**
- Ensure that joint has hardened before cleaning and sealing the surface. Depending on climate and type of installation, typical recommended wait time is **30 days**.
- Not for use on submerged or constantly wet surfaces.
- Joints become soft when humid but become hard again when dry.
- Do not mix product with cement, sand or any other material.
- Because product comes from a natural source, color and grain size may vary.
- This product starts repelling water a few minutes after initial wetting. Make sure to complete each section per detailed installation instructions before moving to the next one.



- The use of cleaning devices (high pressure washer, etc.) is restricted during the first 30 days. It should be noted that too direct and violent jets can create alterations, so it is best to consult the machine manufacturers in order to use the specific accessories with soft jets.
- Failure to have recessed joint could lead to premature joint degradation.
- Do not sweep product over asphalt.
- Bedding layer needs to be able to drain properly in order to allow for the RG+ Polymeric Sand to dry properly. Certain type of bedding or screening materials may not drain properly which will trap moisture and may cause issues.
- Proper maintenance is paramount to maintaining joints in optimal condition. Excessive moisture, shade, inadequate cleaning and maintenance, presence of soil and organic matters (including grass trimmings) left on the joints may contribute to growth of moss, mold or mildew and a premature deterioration of the jointing product.

IMPORTANT: Do not use this product as capping sand.

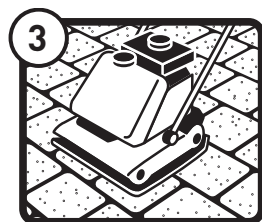
INSTALLATION



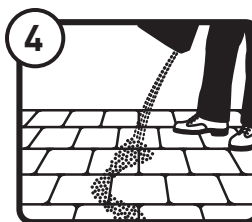
1 Spread product evenly on a small surface.



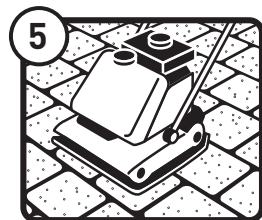
2 Using the street broom, fill joints completely. Spread sand over **short distances**.



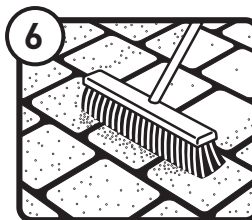
3 Pass the plate compactor over the entire surface to compact the sand. Mechanical compaction should ideally be done starting from center of installation, working towards the edges. Please follow best practices for mechanical compaction as outlined by ICPI.



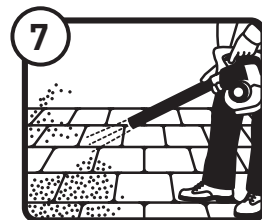
4 Spread more product to fill joints again. Use the street broom again.



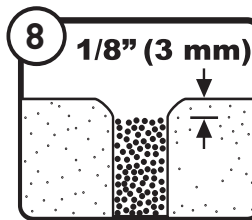
5 Pass the plate compactor or paver roller over the entire surface a second time. For thicker hardscape products, additional mechanical compaction may be required until joint saturation is reached. Proper compaction does not allow a finger to sink into the joint.



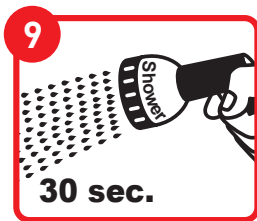
6 Remove excess sand from the surface with the broom.



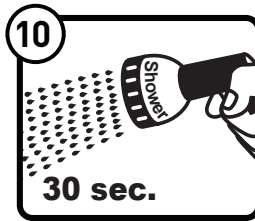
7 Level the height of the sand with the leaf blower.



8 Sand level must be at least 3 mm (1/8") below top of pavers or up to the bottom of the chamfer.

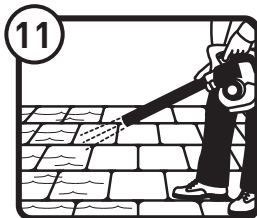


Starting from bottom of the slope, quickly shower a 20m² (200 sq. ft.) section to set the sand for **30 seconds**.



Wait a few seconds and wet the same section again for **another 30 seconds or until joint are saturated** (water can no more penetrate the sand). Avoid run-off and foaming. Check for water accumulation at the surface of the jointing sand

as a cue to stop watering. Wait until there is no free water at the surface of the joint and verify the depth of activation. If RG+ is activated at 75% or more of its depth stop watering. If activated at less than 75%, water for an additional 30 seconds and check again after 30 seconds. **Avoid overwatering RG+ as this will significantly lengthen the curing time and may compromise product performance.**



On textured pavers, use the blower to remove the excess water off the surface and into the joints.

COVERAGE

For a 22,7 kg bag (50 lb): Narrow joints: 6 to 11 m² (60 to 120 sq. ft.) Wide joints: 2,3 à 4 m² (25 to 40 sq. ft.). For a more precise evaluation of the coverage, please refer to the product calculator at techniseal.com. The amount required will depend on the shape and size of the slabs, tiles and pavers, as well as the width and depth of the joints.

STORAGE

Unused bags can be stored outside if they are still on a pallet and protected by the original packaging.

PACKAGING

Polymeric Sand	Product Code	Color	Retail Size	Units per pallet
RG+	40100593 (191-637)	Tan	22.7 Kg (50 lb.) (bag)	56
	40105160 (191-647)	Granite	22.7 Kg (50 lb.) (bag)	56

WARNING

For more information and advice on the proper handling, storage, and disposal of this product, please refer to the latest version of its Safety Data Sheet (SDS). This official document contains physical, ecological, and other important information pertaining to the safe usage of this product. Visit www.techniseal.com or call 1-800-465-7325 to request or find an up-to-date version of this product's Safety Data Sheet (SDS).

KEEP OUT OF REACH OF CHILDREN




TRANSPORT

For more information and advice on the proper handling and transportation of this product, please refer to the latest version of its Safety Data Sheet (SDS). Visit www.techniseal.com or call 1-800-465-7325 to request or find an up-to-date version of this product's Safety Data Sheet (SDS).

LIMITED WARRANTY

Manufacturer, having no control over the use of the materials, does not guarantee finished work. Replacement of any defective product shall be the buyers sole remedy under this warranty. A proof of purchase will be required for any claim. Before using this product, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. User shall test product in a small inconspicuous area (approx. 4 sq. ft.) under projected conditions of use. In the event that no test was carried out, the warranty will only apply to 4 sq.ft. This limited warranty excludes any liability for any consequential, incidental, indirect or special damages. Except for the limited warranty made above, manufacturer specifically disclaims and excludes any other express warranty, any implied warranty of merchantability of goods and implied warranty of fitness of goods for any particular purpose.

Techniseal® Polymeric sand contributes to LEED credits outlined in the table below

Polymeric Sand Contribution Criteria to LEED Credits	 Responds
<p><u>LEED Credits for Regional Materials:</u> Over 95% of raw materials for the manufacture of polymeric sand are extracted within a radius of 800 km or 500 miles from manufacturing plants. Polymeric sand can be delivered on any LEED construction area indicated on the map above (by land) within a radius of 800 km or 500 miles.</p>	
<p><u>LEED Credits for Recycled Contents:</u> Tan-colored sand, contains 22% of pre-consumer recycled material Granite-colored sand, contains 18% of pre-consumer recycled material.</p>	

- Polymeric sand can be delivered on any LEED construction in the yellow colored zone within a radius of 800 km or 500 miles.
- Areas soon covered by LEED certification.



Please contact our technical department at 1-800-465-7325 to confirm that your project is within the area covered by the LEED certification.