



NextGel™ PORCELAIN Paver Jointing Sand

UPDATE

May 26th, 2025

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 (WITH MECHANICAL COMPACTION)

- Porcelain pavers¹. Also suitable for calibrated natural stones such as granite, marble, travertine pavers²
- ¹ STORM™ is an alternative product that can also be used on permeable installations
- ² Also refer to NOCO™ and STORM™ that are alternative solutions for natural stone
- Also suitable for concrete pavers, wet-cast pavers, slabs, textured or clay pavers
- Commercial, residential, industrial and public projects
- Concrete overlay
- For joints from 1/16" to 1/2" (1.6 mm to 13 mm)

PROPERTIES

- Ultra-Clean Technology - Haze & Dust Free†
- Innovative grout replacement
- Color consistent - Efflorescence-free
- No mixing required, fast and easy

DESCRIPTION

Techniseal® NextGel™ PORCELAIN Paver Jointing Sand is specifically designed as an innovative grout replacement for the jointing of porcelain pavers. Unlike traditional cement-based grout, it is a faster and cleaner solution to grouting porcelain pavers. NextGel™ PORCELAIN is a state-of-the-art mix of graded sand and binder that does not require mixing, is applied dry, compacted, watered and hardens after drying. Its superior formulation is suitable for all-climate regions and offers



Techniseal® Jointing products contribute to LEED credits, based on the use of regional and recycled materials.



When installed following instructions, NextGel™ PORCELAIN is well below OSHA's respirable crystalline silica limits ("RCS") for construction material. See details on page 4 of this document.

color-consistent, efflorescence-free joints.

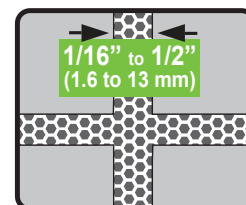
Techniseal® NextGel™ PORCELAIN Paver Jointing Sand is manufactured with revolutionary technologies. NextGel™ radically transforms and improves the properties and behavior of jointing sand, resulting in the first ever true “no dust†”, “no haze” and “no waste” jointing sand for a fast, clean, durable and profitable installation. Additionally, the Ultra-Clean Technology brings that innovation further to create jointing products that are virtually dust-free.

†NextGel™ contains no dust from additives. The dust that can be found is of natural source and comes exclusively from the sand. This is especially true with grey sand which is made from crushed sub-angular aggregates.

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

Maximum joint width: 1/2" (13 mm)

Minimum joint depth: 3/4" (19 mm)



DIRECTIONS

ALWAYS TEST ON A SMALL HIDDEN AREA OF APPROXIMATELY 4 SQ. FT. TO ENSURE THAT RESULT MEETS YOUR EXPECTATIONS (SEE WARRANTY).

BEFORE YOU BEGIN

In order to ensure good cohesion and long-term resistance, jointing sand must imperatively dry completely before being exposed to rain (24 to 48 hours minimum). The drying time will be extended in cold or humid weather. Why? Like paint, jointing sand must dry completely to polymerize and offer all its advantages.

INSTALLATION CONDITIONS

- Temperature must be above **50 °F** (10 °C) for 48 hours following installation.
- Surface and joints must be **dry**.
- Sprinkler system must be turned off.

TRAFFIC

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

COMPACTION INFORMATION

Mechanical compaction is **MANDATORY** when using NextGel™ PORCELAIN Paver Jointing Sand. Failure to do so may compromise joint integrity and performance.

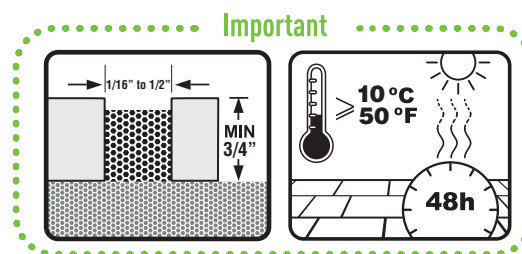
CAUTION

- Wear appropriate safety gear.
- Do not mix product with cement, sand or any other material.
- **Wait for a minimum of 7 days** after installation and ensure that joint has hardened before cleaning and sealing the surface.
- Not for use on submerged or constantly wet surfaces.
- 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.
- Failure to have recessed joint could lead to premature joint degradation.
- 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.

The hardscape products should be installed following the manufacturer's recommendation. Prior to applying NextGel™ PORCELAIN, make sure that the porcelain pavers are well embedded in the bedding layer or properly installed on the NextBase™ panels.

- Do not sweep product over asphalt.
- 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.

- If using on natural stone that has a very porous texture, it is particularly important that the surface be very dry before applying NextGel™ PORCELAIN. Failure to do so may cause staining that will be very difficult to remove or may require cleaning products that can potentially damage the surface of the stone.

COMPACTION INFORMATION

Follow the manufacturer's recommendation for mechanical compaction.

Mechanical compaction should be done until joint is saturated. **Several passes may be required.**

Always pre-compact and strike off your sand leveling course before installing your porcelain pavers in sand-set installations.

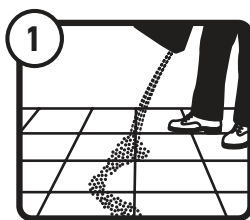
Water must be able to drain through the native soils or any other appropriate aggregate located underneath the installation. In areas where water is unable to evacuate, excessive moisture and humidity will buildup which will negatively impact the performance of the polymeric sand.

INSTALLATION ON A DRAINING BASE WITH PORCELAIN TILES

NECESSARY TOOLS

- Street broom with semi-rigid bristles.
- **Paver roller compactor**
- Paver roller compactor such as Weber MT's VPR 450 & VPR 700, EZG's EVPC120, ESI's EVPC120H are examples of models that can be used to ensure proper mechanical compaction. Use of rubber-coated or nylon rollers is important to help protect the surface.
- Hand tamper may be needed in restricted areas where using heavier equipment may not be possible.
- Leaf blower.
- Handheld or backpack sprayer.

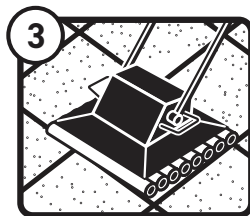
INSTALLATION - IMPORTANT



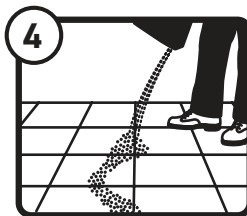
Spread product evenly on a small surface.



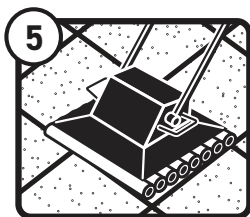
Using the street broom, fill joints completely. Spread sand over **short distances**.



Pass the paver roller compactor over the entire surface to compact the sand.

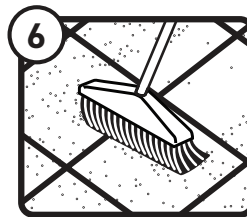


Spread more product to fill joints again.

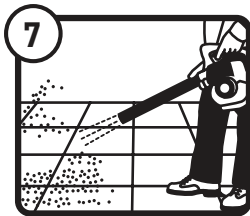


Pass the paver roller compactor over the entire surface a second time.

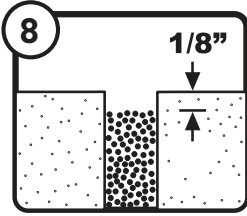
Multiple passes may be required until joint saturation is reached.



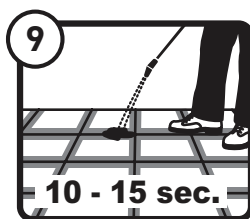
Remove excess sand from the surface with the broom.



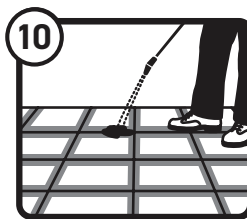
Level the height of the sand with the leaf blower.



Sand level must be at least 1/8" below top of tiles.



A handheld or backpack sprayer is recommended for precise watering of the joints. Using the water sprayer, starting from bottom of the slope, quickly water the joints of a **100 sq. ft. section* (15 to 20 seconds)** by spraying over the joints. Aim to achieve complete saturation of the joint in one pass.



Immediately wet the same section where joints appear drier and need more water.

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 NextGel™ PORCELAIN is activated at 75% or more of its depth, stop watering. If activated at less than 75%, water for an additional 5 seconds and check again after 30 seconds.

*NextGel™ PORCELAIN is fast to activate. It is very easy to overwater installations with large tiles. Carefully track the watering time during the activation process.

COVERAGE

For a 25 lb bag: One bag covers 100 sq. ft.

One bag normally covers 100 sq. ft but coverage can range between 80 - 120 sq. ft.. 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.

For a more precise evaluation of the coverage, please refer to the product calculator at techniseal.com.

INSTALLATION ON A DRAINING BASE WITH CONCRETE PAVERS

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

Maximum joint width: 1" (25 mm)

Minimum joint depth: 1 1/2" (38 mm)

NECESSARY TOOLS:

- Street broom with semi-rigid bristles.
- Plate compactor or Roller compactor (pavers and slabs) / Roller compactor (natural stone and porcelain tiles).
- For suggested equipment specifications, consult the Technical Data Sheet by visiting techniseal.com

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.

Paver roller such as Weber MT's VPR 450 & VPR 700, EZG's EVPC120, ESI's EVPC120H are examples of models that can be used to ensure proper mechanical compaction. Use of rubber-coated or nylon rollers is important to help protect the surface.

- Hand tamper may be needed in restricted areas where using heavier equipment may not be possible.
- Leaf blower.
- Spray nozzle and garden hose.

COMPACTION INFORMATION:

Mechanical compaction is **MANDATORY** when using NextGel™ PORCELAIN Jointing Sand. Failure to do so may compromise joint integrity and performance. If joint width is greater than ¼" and mechanical compaction is either not possible or traditionally not used, please use Techniseal's NOCO™ polymeric joint.

CAUTION

- Wear appropriate safety gear.
- Do not mix product with cement, sand or any other material.
- Ensure that joint has hardened before cleaning and sealing the surface. Depending on climate and type of installation, typical recommended wait time is a minimum of 7 days after installation and may take up to 30 days.
- Not for use on submerged or constantly wet surfaces.

- Joints become soft when humid but become hard again when dry.
- 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 NextGel™ PORCELAIN Jointing 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.

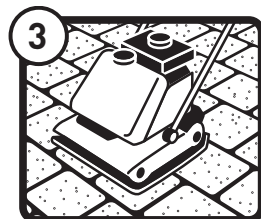
Installation - Important



Spread product evenly on a small surface.



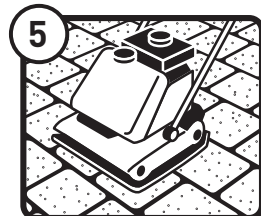
Using the street broom, fill joints completely. Spread sand over **short distances**.



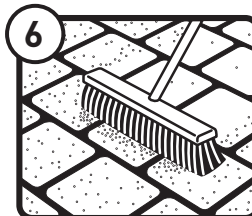
Pass the plate compactor or paver roller over the entire surface to compact the sand. Mechanical compaction should ideally be done starting from center of installation, working towards the edges. Please follow best practices for mechanical compaction as outlined by CMHA.



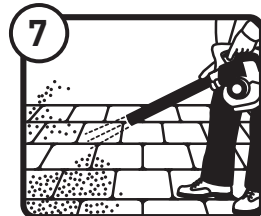
Spread more product to fill joints again.



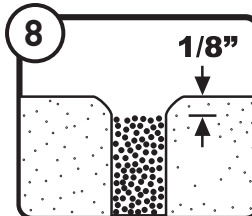
Pass the plate compactor or paver roller over the entire surface a second time. For thicker hardscape products, additional mechanical compaction may be required until joint saturation is reached. Proper compaction does not allow a finger to sink into the joint.



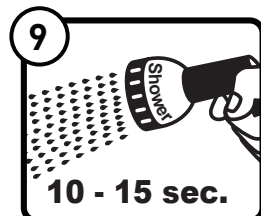
Remove excess sand from the surface with the broom.



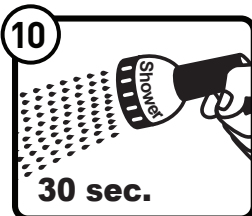
Level the height of the sand with the leaf blower.



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

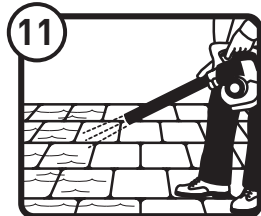


Starting from bottom of the slope, quickly shower a 200 sq. ft. section** to set the sand (10 to 15 seconds). Activation instructions are valid for joint widths from 1/16" to 1/2".



Immediately afterwards, wet the same section for **30 seconds**.

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 NextGel™ PORCELAIN is activated at 75% or more of its depth stop watering. If activated at less than 75%, water for an additional 15 seconds and check again after 30 seconds. **Avoid overwatering NextGel™ PORCELAIN 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 25 lb bag :

Narrow joints: **30 to 60** sq. ft.

Wide joints: **13 to 20** 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

Jointing Product	Product code	Color	Size	Units per pallet
NextGel™ PORCELAIN PAVER JOINTING SAND	141000064	Grey Moonstone	25 lb (bag)	80
	141000065	Black Onyx	25 lb (bag)	80
	141000066	White Pearl	25 lb (bag)	80
	141000067	Beige Agate	25 lb (bag)	80

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

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 buyer's 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. 0.4 m² (4 sq. ft.)) under projected conditions of use. In the event that no test was carried out, the warranty will only apply to 0.4 m² (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 any implied warranty of fitness of goods for any particular purpose.