Techniseal®
Protect and Beautify

STORM
NO COMPACTION

Jointing Compound for Pavers

UPDATE

April 12, 2024
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

- Natural stone, concrete pavers, wet-cast pavers, clay pavers, large slabs and porcelain
- For all types of installations including draining base, cement/sand bedding*
- Ideal for walkways, pool decks, patios and non-vehicular areas
- Ideal for installation with Next Base™ foam panels
- Joint width from 1/8'' to 2'' with intersecting spaces up to 4"
- Minimum joint depth: 1"

*A porous, draining base such as sand or chip setting bed (ASTM #9) is required for proper installation.

PROPERTIES

- Air-curing
- Multi-weather: Use in wet and dry weather conditions
- Permeable jointing compound
- Inhibits weed growth
- Ready-to-use, no mixing required
- Leftovers can be stored temporarily and reused

DESCRIPTION

STORM™ jointing compound installs easily in a wide range of weather conditions, minimizing delays with completing any hardscape installation. No more waiting for rain showers to clear; STORM™ jointing compound installs over wet pavers with continuous water exposure. Formulated for residential projects such as walkways, pool decks, patios and non-vehicular areas.

DIRECTIONS

BEFORE YOU BEGIN

ALWAYS TEST on a small hidden area of approximately 4 sq. ft. (0.4 m²) to ensure that result meets your expectations (see Warranty). For installation with natural stones, wait two days after installation to confirm that there is no staining of the natural stones caused by the migration of some of the ingredients of the jointing compound into the stones (such as a halo effect on the outline of the stones, a phenomenon known with all jointing systems such as mortars, epoxy joints, and others).

For sensitive, highly-textured or absorbent paving materials, user should assess the sensitivy of the material first and ensure that the jointing compound is suitable to be used. More details are provided below.

This product provides a permeable joint. Ensure that it is used on a free draining installation and that water is not retained for extended period of time. Do not use product if conditions are not suitable. Product needs to dry out initially and dry again following exposures to water (rain, cleaning).

Installation Conditions: Temperature must be above **37°F (3°C)** · Freezing conditions following application will extend product set time.

STORM™ permeable jointing compound is used to fill the joints and does not provide structural integrity to the installation. It should only be used on a stable base with proper drainage. The bedding material must provide a stable surface in order for STORM™ to be used succesfully.

Traffic: Pedestrian: 24 h / Vehicular: not recommended. Block access during that period.

Necessary Tools:
- Street broom with stiff bristles for spreading. Squeegee is also acceptable.
- Street broom with stiff bristles for final cleaning.
- Spray nozzle and garden hose
- Masonry jointing tool for smoothing down the joints

CAUTION

- Wear appropriate safety gears.
- Do not mix product with cement, sand or any other material.
- Not suitable for concrete pavers with narrow joints where joint width is typically 1/16". If joint width is between 1/16" to 1/8", please use Techniseal's SMARTSAND® or HP NextGel™ Jointing Sands.
- For pedestrian use only. Do not use for residential and commercial driveways. Please use Techniseal's SMARTSAND® or HP NextGel™ Jointing Sands for such installations.
- **Wait for a minimum of 30 days** after installation and ensure that joint has hardened before cleaning and sealing the surface. Depending on type of sealant used, joint porosity may be affected.
- Do not use on submerged or constantly wet surfaces.
- Because product comes from a natural source, color and grain size may vary. The color shown on the container is for indication only. Joint color may also change under weathering and exposure to elements.
- **IMPORTANT:** Do not use this product as a capping product. Empty the joints first in order to meet the minimum joint width and depth requirements.
- STORM™ is a permeable jointing compound which means that surface water will percolate through the joints. Therefore, joint color and permeability may be altered over time due to contaminants getting into the joint's porous matrix. Light pressure washing can be used to clean the joints and restore them back to their original condition.
- 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.
- Only open vacuum-sealed bag when you are ready to start the application.
- The soles of footwear may pick up the jointing compound during application. Clean shoes on a regular basis to avoid creating marks in the surrounding areas.

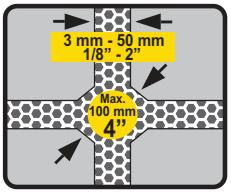
INSTALLATION ON A DRAINING BASE WITH JOINT WIDTH FROM 1/8" TO 2"

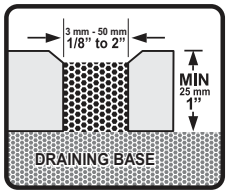
The hardscape products should be installed following the manufacturer's recommendation. Prior to applying STORM™, make sure that the pavers, stones or slabs are well embedded in the bedding layer. For **flagstone**, the Natural Stone Institute guideline should be followed (www.naturalstoneinstitute.org). For **pavers and slabs**, ICPI Technical Specification Spec #2 (www.icpi.org) should be used. **DO NOT USE STONE DUST**, base system or other bedding material that is not free draining. For overlays or base systems that have low to no drainage capacity, please use Techniseal's HP NextGel™ jointing sand or NOCO™ polymeric joint.

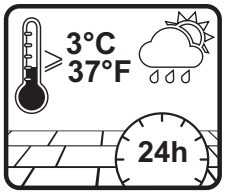
For thin pavers (less than 1"), the bedding material must provide a stable surface in order for STORM™ to be used succesfully. Sand-set installations may not be stable enough for thin paving materials to be used in conjunction with STORM™.

STORM™ will not function properly if used on an impermeable base such as concrete or strongly mixed bedding mortar (greater than 5:1 ratio). STORM™ may fail overtime and Warranty will not apply under such conditions as a porous, draining base is required for proper installation.

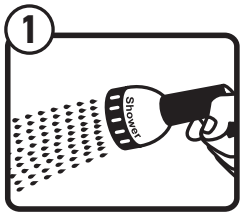
INSTALLATION







IMPORTANT:
Weather conditions: STORM™ can be applied under various meteorological conditions. Product can be applied in wet and dry weather conditions.
If intense or extensive rainfall is forecasted, it may be wiser to wait for improved conditions before installation. Heavy rainfall can create an uneven joint finish by displacing sand particles found in the product.
Extensive or repetitive rainfalls will slow down the curing process.



1- Using the garden hose, pre-soak the entire surface first, including the surrounding areas. Work on a small section to ensure that you can maintain surface wet and prevent it from drying out.
2- Open the container, cut the vacuum-sealed bag open and pour content onto the surface. Start adding water with your sprayer set to Shower mode.
3- Using the broom (or squeegee), spread product over the surface. Use water to move jointing compound into the joints. Keep product wet at all time to prevent premature curing.
STORM™ can not be overwatered. Large quantities of water should be used throughout the entire process (before-during-after).
The application is easier to accomplish by a two-employee team.
Ensure not to use excessive water pressure
- Add more product to fill joints completely. Continue to spread product using the broom (or squeegee) and to water the area. Repeat as needed. Compound level must be at least 1/8" below top of pavers or up to the bottom of the chamfer.

Despite STORM™ being a product that does not require compaction in most circumstances, it is critical that joints are filled completely. For very narrow joints and/or with thick pavers, mechanical compaction using a Plate Compactor or Paver Roller will help ensure that the joints are full.

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.
Product can NOT be overwatered. Additional water helps with product settling down and penetrating deeper into the joints.

- Once joints are filled, remove excess product from the surface and then continue rinsing the entire area thoroughly while brushing.

Excess product can be salvaged and scooped back into its original container for later use. Product should be usable for several weeks. Leftovers need to be completely covered with water (approx. 2") to prevent product from curing inside the container. If cure has begun, do not put product back into container. Do not attempt to reseal the bag as it will not be air tight. Close back container tightly.

4- Optional
Using a masonry jointing tool, smooth down the STORM™ joints to insure a uniform finish.

In order to get a surface finish without streaks, use a **different, clean broom** for final cleaning. Once the compound has started to harden, remove product residues from the entire surface, both grain sands and the oily resin from the jointing compound. Brushing diagonally to the joints will help. The rainbow slick should vanish completely.

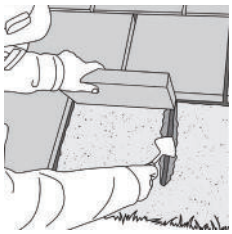
Set time: In order to ensure good cohesion and long-term resistance, jointing compound must imperatively dry completely via a combination of water evaporation and drainage. Under dry and warm conditions, joints will be firm enough so that one can walk on the surface 24 hours later. The drying time will be extended in cold or humid weather. Freezing conditions will cause the curing of the compound to slow down very drastically and product hardening will take several days to fully complete.

FOR NATURAL STONE AND FLAGSTONES WITH JOINTS UP TO 2", INTERSECTING SPACES UP TO 4" AND STONE THICKNESS UP TO 2":

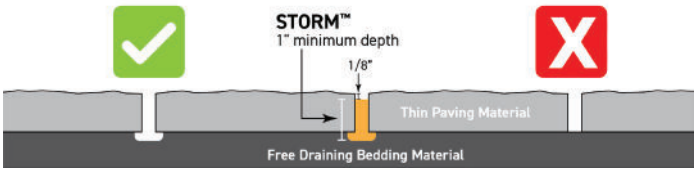
The general instructions described above for concrete pavers apply to natural stone and flagstone installation as well. The base system or bedding material needs to be free draining. Adequate amount of water will be required during installation to prevent surface marking of the stones. Certain natural stones are more sensitive than others and can be subject to marking, staining, etc. A large quantity of water is used to create a barrier between STORM™ and the potentially sensitive natural stones but this may not be sufficient to prevent surface marking.
Pre-sealing of natural stone will help reduce the possibility of surface marking. In order to protect the surface during the installation process, a penetrating sealer should be used and film-forming sealers should be avoided. Pre-sealing can be done either before installing the natural stone or before jointing, allowing sufficient time for the sealer to completely dry.
For thin natural stone or thin flagstone installations (less than 1"), the base system or bedding material must provide a stable surface in order for STORM™ to be used succesfully. Sand-set installations may not be stable enough for thin paving materials to be used in conjunction with STORM™. A minimum depth of 1" is required at all times. If this depth can not be achieved because thin paving materials are used, one should use a trowel to create a channel underneath the surroundings of the paving materials.

FOR PORCELAIN PAVERS:

The general instructions described above for concrete pavers apply to porcelain pavers installation as well. The base system or bedding material needs to be free draining. Less water will be required during installation. Only a minimal amount of water is needed to prevent surface marking and to move jointing compound into the joints. For porcelain paver installations, the base system or bedding material must provide a stable surface in order for STORM™ to be used succesfully.



Sand-set installations may not be stable enough for thin paving materials to be used in conjunction with STORM™. A minimum depth of 1" is required at all times. If this depth can not be achieved because thin paving materials are used, one should use a trowel to create a channel underneath the surroundings of the paving materials.



COVERAGE

For a 40 lb (18.1 kg) bucket:
One bucket covers approximately 90 - 125 ft^2 (8.5 -11.5 m^2).
Coverage will depend on joint width and type as well as surface porosity.

STORAGE AND SHELF LIFE

Product typically has an 18 month shelf life from manufacturing date.
Unused material can be recuperated temporarily and used on another installation.
Packaging can be recycled.
Store in a cool, dry place.

PACKAGING

Jointing Compound	Product Code	Color	Size	Units per pallet
STORM NO COMPACTION	40105082	Tan	18.1 kg / 40 lb (bucket)	50
	40105084	Granite	18.1 kg / 40 lb (bucket)	50
	40100613	Black	18.1 kg / 40 lb (bucket)	50
	141000028	Ivory	18.1 kg / 40 lb (bucket)	50

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).

TECHNICAL INFORMATION

Properties	Test method	Specification
Surface infiltration rate	ASTM C1781	50-70 in/h*

*From internal report Oct. 2021

5-YEAR 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. 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 m^2 (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 m^2 (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. Proof of purchase is required for any claim.