



SMART SAND®

POLYMERIC SAND

For Interlocking Concrete Pavers



with
NextGel[™]
TECHNOLOGY

UPDATE

January 23, 2019

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

- Ideal for interlocking concrete pavers
- For standard¹ installations with narrow joints
- Residential projects: driveways, walkways, patios, etc.
- Non-vehicular commercial projects¹

PROPERTIES

- NO HAZE
- Meets ASTM C144 standard
- Fast-setting
- Inhibits weed growth
- Deters ants and other insects
- Eliminates joint erosion – water, frost heaving, wind, power washing, etc.
- Stabilizes paver installations - follows movement

DESCRIPTION

SmartSand® Polymeric Sand from Techniseal® is a mix of ASTM C144 graded sand and binder that provides a stable joint between interlocking concrete pavers exposed to normal traffic¹. Applied dry, it hardens after being activated with water. It allows joints to resist erosion, weeds and insects.

Manufactured with the NextGel™ technology, SmartSand® is quick to activate, sets rapidly and leaves no undesirable haze on pavers.

¹For non-standard installations such as high-humidity areas, pool decks, false or wide joints (between 1" and 4"), areas exposed to heavy traffic such as public ways and commercial projects with vehicular traffic, surfaces with steep slopes or surfaces exposed to large amounts of standing water, we recommend the use of **HP NextGel™** Jointing Sand from Techniseal (High-Performance formula).

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



Techniseal® Polymeric Sand counts towards LEED credits, based on the use of regional and recycled materials.

JOINT DIMENSIONS:

Minimum Joint Width: 1/16"

Maximum Joint Width: 1"

Note: SmartSand® is specially designed for interlocking concrete pavers with a joint width from 1/16" to 1/4". However, it can also be used with wider joints, up to 1" (width of intersections).

Minimum Joint Depth: 1.5"

DIRECTIONS**BEFORE YOU BEGIN**

- Before proceeding with the installation, make sure you have an up-to-date technical data sheet in hand.
- On large projects, test the product on approximately 50 sq. ft. and have it approved by a specifier or the customer.
- Check the weather forecast. Although SmartSand can resist an unforeseen rain 60 minutes after its installation, it is recommended to plan for at least 24 hours without rain in order to obtain optimal performances.
- On an existing installation, when replacing the sand, always use HP NextGel^{MC} jointing sand.
- In case of uncertainty regarding the installation of this product or for any further assistance, please contact technical support at 1 (800) 465-7325.

Installation Conditions:

- Bedding must be made of 0 to 3/16" dense graded sand.
- Only install over a drainage base and bed (sand-set) as per ICPI recommendations.
- Temperature must be above 32°F for 48 hours following installation.
- Surface and joints must be **dry**. This will prevent the polymers on the surface from being activated, which would make the sand stick to the pavers.
- Sprinkler system must be turned off.

Necessary Tools:

- Street broom with semi-rigid bristles.
- Plate compactor - Ideally, the plate compactor should have a minimum centrifugal force of 25 kN (5000 psf) and a frequency between 80 and 100 Hz. The weight of the plate compactor should not exceed 220 lbs. A smaller machine can be used for repair work and joint replacement.
- Rubber mallet (in case mechanical compaction is not possible (large slabs)).
- Leaf blower.
- Spray nozzle and garden hose.

Compaction Information:

Use a plate compactor as described above. Check with the paver supplier about the suitability of using a plate compactor. For **pavers or slabs with a sensitive surface**, use a plate compactor with a rubber mat or a membrane such as a flat-joint plastic snow fence placed on top of the paved surface. Where a plate compactor cannot be used, proceed with a manual compaction: hammer vigorously each corner as well as the contour of each slab with a rubber mallet. This will generate a vibration and pack down the product. A manual compaction **will never replace** the use of a plate compactor. In order to obtain a joint that is dense, solid and durable and that will perfectly resist erosion, the surface must be compacted mechanically.

Drying: To ensure optimal cohesion and long-term stability, SmartSand 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.

Down time before using: Pedestrian areas: none / Vehicular areas: 24 to 48 hours. Block access during that period.

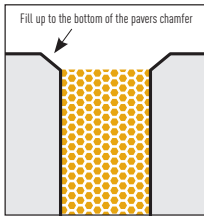
Warnings:

- Wear adequate protective clothing and gear.
- Do not use this product as capping sand.
- Do not use as a substitute for mortar (e.g. paving stones installed over a concrete bedding).
- Do not mix polymeric sand with cement, sand or any other material.
- **Wait 30 days** after installation before cleaning and sealing pavers.
- Not for use on submerged or constantly wet surfaces.
- Joints become soft when humid, but become hard again after drying.
- Because product comes from a natural source, color and grain size may vary.
- This product starts repelling water only a few minutes after initial wetting - wet no more than 200 sq. ft. of surface at a time.
- Do not sweep product over asphalt.



1. Spreading sand over the pavers:

Surface must be dry. Spread sand uniformly over the surface. Using a push broom, sweep the product so as to fill the joints completely, down to their full depth. Avoid sweeping the product over long distances, so that the integrity of the sand is preserved.



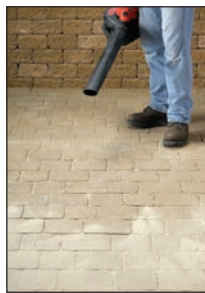
2. Compacting the sand:

This step is critical to obtain solid, durable joints. Mechanical compaction will provide, at all times, a stronger joint.

Run a plate compactor over the entire surface to fully compact the joints.

Repeat steps 1 & 2 until joints are completely full. Joints must be filled up to the bottom of the pavers chamfer, or 1/8” below the top of the pavers.

Where a plate compactor cannot be used, proceed with a manual compaction: hammer vigorously each corner as well as the contour of each slab with a rubber mallet. This will generate a vibration and pack down the product. A manual compaction **will never** replace the use of a plate compactor



3. Activating the sand:

This step must be followed closely in order to ensure optimal results.

Important: Before wetting the surface: **Remove all sand residue with a leaf blower.** Keep the leaf blower at a good distance, so as to not empty the joints. This will avoid having product residue activated with water and stick to the surface of the pavers. Surface must be free of the product.

Since SmartSand starts repelling water only a few minutes after it gets wet, it is essential to wet no more than 200 sq. ft. of surface at a time. Ensure that the wetting of one section is finished before another section is started. Wetting of the entire project should be done without interruptions.

1. Set the spray nozzle to “shower”.
2. Start showering from the bottom of the slope.
3. Wet a 200 sq. ft. section for **approximately 30 seconds** without displacing the sand.
4. 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.
5. Immediately move on to an adjacent 200 sq. ft. section. **Avoid excess flooding of the surface**, which could cause unwanted run-off.

Tip: On textured pavers, after wetting the joints on a section, use a leaf blower to blow excess water off the surface. This will remove any remaining sand and polymer residue.

When wetting joints wider than 1/2”: wet sections no larger than 50 sq. ft. For each section, shower for 30 seconds a first time, then shower again for another 30 seconds or until joints can no longer absorb water.

COVERAGE

50 lb bag: Narrow joints: 60 to 120 sq. ft. Wide joints: 25 to 40 sq. ft. Required quantity will depend on the shape and size of the pavers or slabs, and on the width and depth of joints.

STORAGE AND SHELF LIFE

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
SmartSand	40101218	Tan	50 lbs (bag)	56
	40101220	Urban Grey	50 lbs (bag)	56
	40101219	Granite	50 lbs (bag)	56
	40101232	Grey	50 lbs (bag)	56
	40101229	Western Grey	50 lbs (bag)	56
	40101230	Western Tan	50 lbs (bag)	56
	40101233	Sierra Grey	50 lbs (bag)	56
	40101224	Bourbon Tan	50 lbs (bag)	56
	40101225	Southern Tan	50 lbs (bag)	56
	40101226	Southern Grey	50 lbs (bag)	56
	40101227	Prairie Tan	50 lbs (bag)	56
	40101228	Prairie Grey	50 lbs (bag)	56
	40101222	Niagara Tan	50 lbs (bag)	56
	40101223	Nordic Grey	50 lbs (bag)	56
	40101231	Mojave Tan	50 lbs (bag)	56
	40101221	Pacific Grey	50 lbs (bag)	56
	40101235	Ash Grey	50 lbs (bag)	56
40101234	Napa Tan	50 lbs (bag)	56	

Color varies from one region to another. Shipping fees will be added to non-local sands.
 Consult your Techniseal® dealer for color availability, pricing and delivery time.

LIMITED 15-YEAR WARRANTY

Manufacturer, having no control over the use of this Product, does not guarantee finished work. This Limited 15-Year Warranty (hereinafter “warranty”), exclusively covers all residential installations (single or multi-unit exclusively residential). Replacement or refund of any product proven defective shall be the buyer’s sole remedy under this warranty. This product will perform its intended function when installed in accordance with its packaging instructions, technical data sheets instructions, and standard industry practices (ICPI Tech Spec #2). It is the sole responsibility of the user to determine the suitability and compatibility of this product for the intended use before installing it. No representation, promise, pre-approval, affirmation, statement, or demonstration by any employee of TECHNISEAL or its distributors shall modify or supersede the terms of this warranty. This warranty applies only to SMARTSAND used on the installation, and replaces all previous warranties. This warranty lasts so long as the job installation remains unchanged by the original owner and is none transferable, and shall end as specified in this warranty. To the extent permitted by law, all other warranties, including, but not limited to, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. ANY IMPLIED WARRANTIES ARISING BY OPERATION OF LAW ARE LIMITED IN DURATION TO THE TERM OF THIS EXPRESS LIMITED WARRANTY.

Manufacturer will not be liable for damage or loss resulting from the following: structural failure; inadequate surface or sub-surface; inadequate job configuration; Acts of God; product misuse or modified; failure to comply with the packaging instructions, technical data sheets instructions, and standard industry practices; wear and tear from normal usage; cracking due to structural movement; excessive deflection due to heavy landscaping machinery, delivery truck, or waste collection truck or other failure of the substrate. IN NO EVENT SHALL TECHNISEAL BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF SALES OR PROFITS; BUSINESS INTERRUPTION OR DOWNTIME; INCREASED EXPENSE OF OPERATION; DAMAGE TO OTHER MATERIALS OR PROPERTY; OR LOSS OF USE OF PROPERTY. Proof of purchase is required for any claim. The above terms and conditions are applicable for commercial use, mix-use and institutional use except that the applicable period is limited to 1 year from the date of purchase.



HP NextGel™ JOINTING SAND

UPDATE

May 28, 2019

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

- Concrete pavers, wet-cast pavers, natural stone, textured or clay pavers and porcelain tiles
- Heavy-sloped and high-traffic areas
- High-humidity areas and pool decks
- Commercial, residential, industrial and public projects
- False and wide joints from 1/16" to 4"

PROPERTIES

- No dust[†]
- No haze
- Fast wetting
- Optimal strength
- Deters ants and other insects
- Inhibits weed growth
- Eliminates joint erosion – water, frost heaving, wind, power washing, etc.
- Water-resistant after 60 minutes
- Stabilizes pavers – Strengthens interlocking



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



When installed following instructions, HP NextGel is well below OSHA's respirable crystalline silica limits ["RCS"] for construction material. See details on page 5 of this document.

DESCRIPTION

Techniseal® HP NextGel™ Jointing sand is a state-of-the-art mix of graded sand (ASTM-C144) and binder that flows smoothly down joints for a fast and effective installation of pavers or slabs with false, narrow or wide joints. It is also recommended for surfaces exposed to heavy traffic, and for high-humidity areas. Easy to use, NextGel™ Jointing sand starts to set only a few minutes after being activated with water, and quickly becomes resistant to water erosion (rain, splashes, sprinklers, etc.). NextGel™ Jointing sand offers great resistance to weed growth, insect invasion, and erosion.

Techniseal® HP NextGel™ Jointing sand has been manufactured with a revolutionary technology called NextGel™. 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.

†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 gray sand which is made from crushed sub-angular aggregates.

Minimum joint width: 1/16”

Maximum joint width: 4”

Minimum joint depth: 1.5”*

* For installation on porcelain tiles that are less than 1.5” thick, fill up joints completely.

DIRECTIONS

BEFORE YOU BEGIN

Before proceeding with the installation, make sure you have an up-to-date technical data sheet in hand. Although HP NextGel can resist an unforeseen rain 60 minutes after its installation, it is recommended to plan for 24 hours without rain in order to obtain optimal performances. For joints wider than 1/2” (natural stone), 48 hours without rain is recommended.

Installation Conditions:

- Bedding must be made of 3/16” dense graded sand. Install over a drainage base and bed (sand-set) as per ICPI recommendations.
- Temperature must be above 32°F for 48 hours following installation.
- Surface and joints must be **dry**.
- Sprinkler system must be turned off.
- Product must be tested on a small area to insure that texture and color meet expectations.

Necessary tools:

- Street broom with semi-rigid bristles.
- Plate compactor (pavers and slabs) / Roller compactor (natural stone and porcelain tiles).
Plate compactor – Ideally, the plate compactor should have a minimum centrifugal force of 25 kN (5000 psf) and a frequency between 80 and 100 Hz. The weight of the plate compactor should not exceed 100 kg (220 lbs.). A smaller machine can be used for repair work and joint replacement.
- Rubber mallet (large slabs).
- Leaf blower.
- Spray nozzle and garden hose.

Compaction Information:

For **pavers and slabs**, use a plate compactor as described above. For **natural stone**, use a roller compactor or a plate compactor on a membrane such as a flat-joint plastic snow fence or a 5/8” thick plywood sheet. For **slabs with a sensitive surface**, use a plate compactor with a membrane such as a flat-joint plastic snow fence placed on top of the paved surface. For **large slabs**, porcelain tiles and where a plate compactor cannot be used, proceed with a manual compaction: hammer vigorously each corner as well as the contour of each slab with a rubber mallet. This will generate a vibration and pack down the product. To ensure a proper compaction, we also recommend cutting through the joints with a joint trowel while taking care not to mix the polymeric sand with the bedding sand.



1. Spread product evenly on a small surface.



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



3. Pass the plate compactor* over the entire surface to compact the sand.



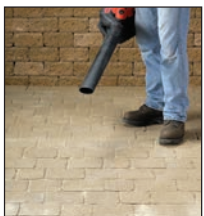
4. Spread more product to fill joints again.



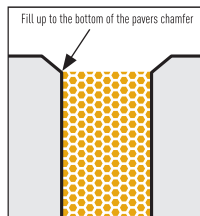
5. Pass the plate compactor* over the entire surface a second time.



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 1/8" below top of pavers or up to the bottom of the chamfer.



9. Starting from bottom of the slope, quickly shower a 200 sq. ft. section** to set the sand (**10 to 15 seconds**). Immediately afterwards, wet the same section for **30 seconds**.



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

*For natural stone and porcelain tiles, replace the plate compactor with a Roller compactor.

** When wetting joints wider than 1/2": wet sections no larger than 50 sq. ft. For each section, shower for 30 seconds a first time, then shower again for another 30 seconds or until joints can no longer absorb water.

Drying: To ensure optimal cohesion and long-term stability, HP NextGel Jointing 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 or if product is used with natural stone.

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

CAUTION

Wear appropriate safety gears. • **Do not** use this product as capping sand. • Do not mix product with cement, sand or any other material. • **Wait 30 days** after installation before cleaning and sealing pavers. • 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 only a few minutes after initial wetting - wet no more than 200 sq. ft. of surface at a time. • Do not sweep product over asphalt.

COVERAGE

For a 50 lb. bag : Narrow joints: 60 to 120 sq. ft. Wide joints: 25 to 40 sq. ft. For a more precise evaluation of the coverage, please refer to the product calculator at techniseal.com.

STORAGE AND SHELF LIFE

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

SAFETY WARNINGS

MAY IRRITATE EYES. MAY IRRITATE SKIN. CAUSES EYE AND SKIN IRRITATION. Do not get on skin or clothing. Do not get in eyes. **KEEP OUT OF REACH OF CHILDREN. FIRST AID TREATMENT** If swallowed, call a Poison Control Centre or doctor immediately. Get medical attention if symptoms occur. Do not induce vomiting. If in eyes or on skin, rinse well with water. If breathed in, move person to fresh air.

EMERGENCY PHONE: CANUTEC (613) 996-6666. SEE MATERIAL SAFETY DATA SHEET FOR THIS PRODUCT

SHIPPING

Land and sea

NOT REGULATED

PACKAGING

Jointing sand	Product Code	Color	Retail Size	Units per pallet
HP NextGel™	40100596 (291-H37)	Tan	50 lb (bag)	56
	40100597 (291-H47)	Granite	50 lb (bag)	56
	40100598 (291-H77)	Urban Grey	50 lb (bag)	56
	40105612	Grey	50 lb (bag)	56
	40108003 (291-H87)	Black	50 lb (bag)	56
	40105613 (291-H97)	Ivory	50 lb (bag)	56
	40100600 (2W1-H47)	Pacific Grey	50 lb (bag)	56
	40105502 (CA21-H47)	Sierra Grey	50 lb (bag)	56
	40105503 (MI21-H37)	Napa Tan	50 lb (bag)	56
	40105142	Summit Grey	50 lb (bag)	56
	40105501 (MI21-H37)	Mojave Tan	50 lb (bag)	56
	40100251 (ID21-H37)	Western Tan	50 lb (bag)	56
	40100590 (ID21-H47)	Western Grey	50 lb (bag)	56
	40100592 (MP21-H27)	Bourbon Tan	50 lb (bag)	56
	40101146 (MP21-H37)	Southern Tan	50 lb (bag)	56
	40101147 (MP21-H47)	Southern Grey	50 lb (bag)	56
	40100397 (NE21-H37)	Prairie Tan	50 lb (bag)	56
	40100396 (NE21-H47)	Prairie Grey	50 lb (bag)	56
	40100599 (ON91-H37)	Niagara Tan	50 lb (bag)	56
40100601 (ON91-H47)	Nordic Grey	50 lb (bag)	56	

Color varies from one region to another. Shipping fees will be added to non-local sands.
Consult your Techniseal dealer for color availability, pricing and delivery time.

LIMITED 20-YEAR WARRANTY

Manufacturer, having no control over the use of this Product, does not guarantee finished work. This Limited 20-Year Warranty (hereinafter “warranty”), exclusively covers all residential installations (single or multi-unit exclusively residential). Replacement or refund of any product proven defective shall be the buyer’s sole remedy under this warranty. This product will perform its intended function when installed in accordance with its packaging instructions, technical data sheets instructions, and standard industry practices (ICPI Tech Spec #2). It is the sole responsibility of the user to determine the suitability and compatibility of this product for the intended use before installing it. No representation, promise, pre-approval, affirmation, statement, or demonstration by any employee of TECHNISEAL or its distributors shall modify or supersede the terms of this warranty. This warranty applies only to HP NEXTGEL used on the installation, and replaces all previous warranties. This warranty lasts so long as the job installation remains unchanged by the original owner and is none transferable, and shall end as specified in this warranty. To the extent permitted by law, all other warranties, including, but not limited to, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. ANY IMPLIED WARRANTIES ARISING BY OPERATION OF LAW ARE LIMITED IN DURATION TO THE TERM OF THIS EXPRESS LIMITED WARRANTY.

Manufacturer will not be liable for damage or loss resulting from the following: structural failure; inadequate surface or sub-surface; inadequate job configuration; Acts of God; product misuse or modified; failure to comply with the packaging instructions, technical data sheets instructions, and standard industry practices; wear and tear from normal usage; cracking due to structural movement; excessive deflection due to heavy landscaping machinery, delivery truck, or waste collection truck or other failure of the substrate. IN NO EVENT SHALL TECHNISEAL BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF SALES OR PROFITS; BUSINESS INTERRUPTION OR DOWNTIME; INCREASED EXPENSE OF OPERATION; DAMAGE TO OTHER MATERIALS OR PROPERTY; OR LOSS OF USE OF PROPERTY. Proof of purchase is required for any claim. The above terms and conditions are applicable for commercial use, mix-use and institutional use except that the applicable period is limited to 1 year from the date of purchase.



On September 23rd, 2017, the Occupational Safety and Health Administration (“OSHA”) issued a respirable crystalline silica standard (“RCS”) for construction.

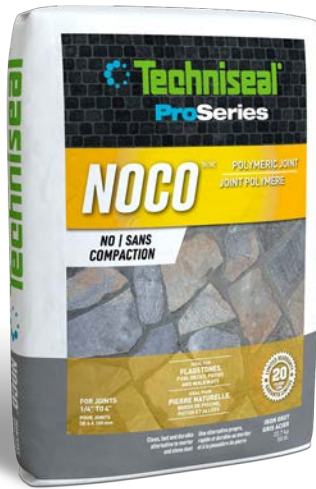
Techniseal retained the services of Clark Testing Inc to perform an industrial hygiene assessment with regards to the use of its polymeric jointing sands. This test was designed to quantify a worker’s exposure to respirable dust and respirable crystalline silica when installing Techniseal polymeric sand.

The results show that a worker’s exposure to respirable crystalline silica when installing Techniseal’s HP NextGel is less than 9% of the applicable OSHA norm of to 50 micrograms per cubic meter of air, averaged over an 8-hour work shift.

The recorded respirable dust exposure during the monitored tasks ranged from of 5 to 13% of the OSHA Permissible Exposure Limit (PEL) set at 5 mg/m³. The time weighted average to an eight-hour shift were all lower than 1% of the PEL.

This test confirms that Techniseal polymeric sand installation generates respirable dust and respirable crystalline silica that are well below OSHA regulation.

However, Techniseal recommends that all employees exposed to RCS wear appropriate personal protective equipment (“PPE”) as defined by OSHA. Please consult OSHA Standard 29 CFR 1926.1153 for further recommendations/requirements.



NOCO[™]

POLYMERIC JOINT

UPDATE

April 28, 2020

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U.S.A. and Canada: dial 1 800 465-7325
Others: dial (514) 523-8324 (Canada)

APPLICATIONS

- Natural stones, wet cast pavers, concrete pavers, highly textured surfaces and large slabs
- For all types of installations including draining base, cement/sand bedding, and concrete overlays
- Ideal for installation with the EZ base foam panel
- False joints
- Joint width from 1/4" to 4"*

*For joint narrower than 1/4", please contact Techniseal[®]. Recommended joint width for flagstone is up to 2" with interstice up to 4".

- Residential and commercial projects: Follow stone or paver's manufacturer recommendations.

PROPERTIES

- Fast wetting
- Optimal strength
- Deters ants and other insects
- Inhibits weed growth
- Eliminates joint erosion – water, frost heaving, wind, cleaning, etc.

DESCRIPTION

Techniseal[®] NOCO[™] is the first jointing product specifically developed for projects where mechanical compaction is either not possible or traditionally not used.

Ideal for flagstones, wet cast pavers (such as imitation European cobblestone), large slabs and false joints; NOCO[™] can be used on concrete overlay or cement-sand base bedding. It is a clean, easy and fast alternative to mortar and stone dust jointing.



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

DIRECTIONS

ALWAYS TEST on a small hidden area of approximately 4 sq. ft. 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 polymeric jointing mix 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).

BEFORE YOU BEGIN

Due to the unique nature of this material, it is mandatory that the installation be protected from rain for 24 hours after installation. For wider joints and installation in colder temperature, 48 hours without rain may be required.

Installation Conditions: Temperature must be above 50°F for 48 hours following installation. • Surface and joints must be dry. • Sprinkler system must be turned off.

Necessary Tools:

- Street broom with semi-rigid bristles
- Leaf blower
- Spray nozzle and garden hose
- Small soft brush for smoothing down the joints before activation

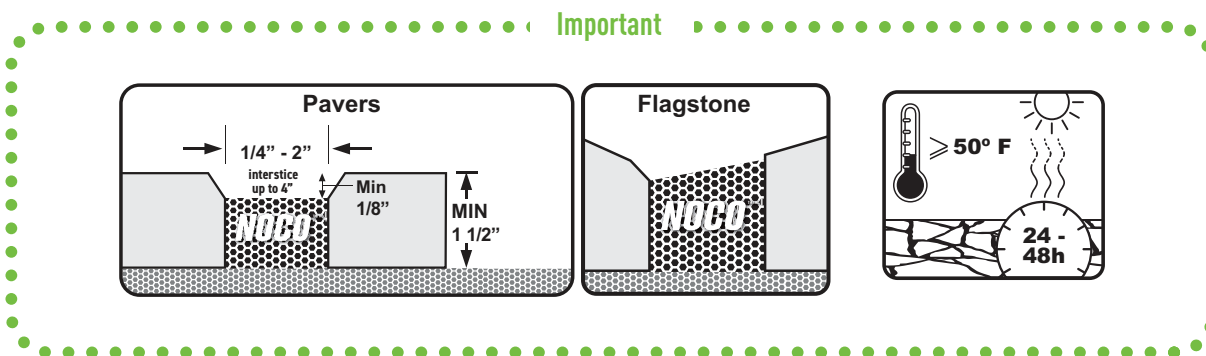
CAUTION

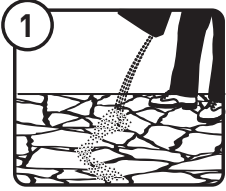
- Wear appropriate safety gears.
- Do not mix product with cement, sand or any other material.
- **Wait for a minimum of 7 days** after installation and ensure that joint has hardened before cleaning and sealing the surface.
- Do not use on submerged or constantly wet surfaces.
- Because product comes from a natural source, color and grain size may vary.
- **IMPORTANT:** Do not use this product as capping sand.
- 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.

INSTALLATION ON A DRAINING BASE WITH JOINT WIDTH FROM 1/4" TO 4"

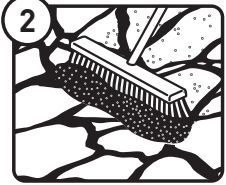
NOTE: For installation on concrete overlay, please see [sub-section further down](#).

The hardscape products should be installed following the manufacturer's recommendation. Prior to applying NOCO™, 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.





Spread product evenly on a small surface.

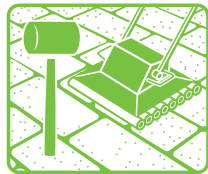


Using the street broom, fill joints completely. Spread NOCO™ over **short distances**.

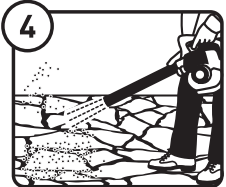


Remove excess NOCO™ from the surface with the broom.

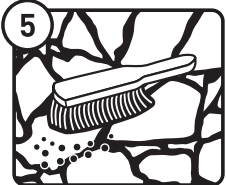
Optional



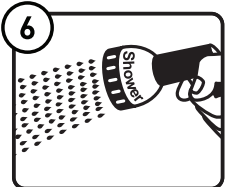
A slab and paver roller compactor or a rubber mallet can be used to compact NOCO™.



Level the joint height of NOCO™ and **remove all NOCO™ residue from the surface with the leaf blower.**



Using the small brush, smooth down the NOCO™ joint to ensure a uniform finish after activation.



For joints up to 1/2": wet 30 sec/100 sq. ft.

For joints 1/2" to 4": wet up to 60 sec/50 sq. ft. Stop showering when you see water retention on the joints.

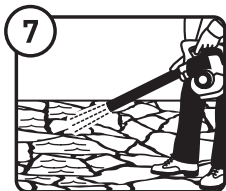
NOCO™ ACTIVATION INSTRUCTION FOR TYPICAL INSTALLATION ON DRAINING BASE

For Flagstones with joints up to 2", interstices up to 4" and stone thickness up to 2": with your sprayer set at shower, starting at the bottom of the slope, **water each section of 50 sq. ft. for 45 to 60 seconds**. Check for water accumulation at the surface of the jointing product as a cue to stop watering. Wait 30 seconds and verify the depth of activation. If NOCO™ 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 NOCO™ as this will lengthen the curing time and may result in additive wash out in extreme cases.

For imitation European cobblestones with joint with approximately 1/2" and joint depth 1 1/2": with your sprayer set at shower, starting at the bottom of the slope, **water each section of 100 sq. ft. for 45 to 60 seconds**. Check for water accumulation at the surface of the jointing product as a cue to stop watering. Wait 30 seconds and verify the depth of activation. If NOCO™ 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 NOCO™ as this will lengthen the curing time and may result in additive wash out in extreme cases.

For large slabs* with 1/2" joint with your sprayer set at shower, starting at the bottom of the slope, **water each section of 100 sq. ft. for 20 to 30 seconds**. Check for water accumulation at the surface of the jointing product as a cue to stop watering. Wait 30 seconds and verify the depth of activation. If NOCO™ is activated at 75% or more of its depth stop watering. If activated at less than 75%, water for an additional 10 seconds and check again after 30 seconds. Avoid overwatering NOCO™ as this will lengthen the curing time and may result in additive wash out in extreme cases.

*It is very easy to overwater installations with large slabs. Carefully track the watering time during the activation process.

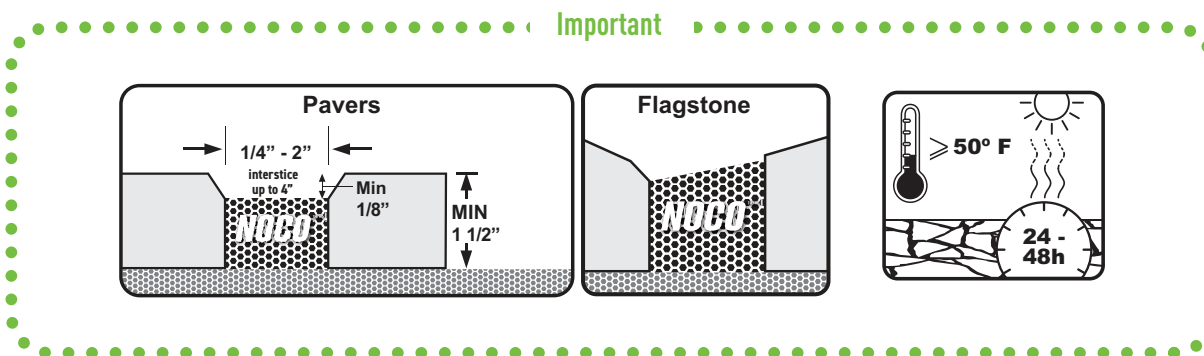


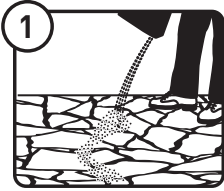
Use the leaf blower to remove all excess water from the surface.

END OF SUB-SECTION FOR INSTALLATION ON DRAINING BASE

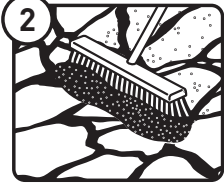
INSTALLATION ON CONCRETE OVERLAY WITH JOINT WIDTH FROM 1/4" TO 4" (INCLUDING FALSE JOINTS)

The hardscape products should be installed following the manufacturer's recommendation. Prior to applying NOCO™, 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 #10 and #20 (www.icpi.org) should be used for drainage hole dimension, position and slope requirements.





Spread product evenly on a small surface.

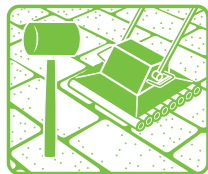


Using the street broom, fill joints completely. Spread NOCO™ over **short distances**.

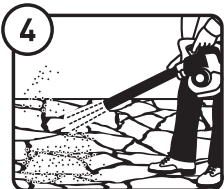


Remove excess NOCO™ from the surface with the broom.

Optional



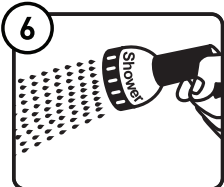
A slab and paver roller compactor or a rubber mallet can be used to compact NOCO™.



Level the joint height of NOCO™ and **remove all NOCO™ residue from the surface with the leaf blower.**



Using the small brush, smooth down the NOCO™ joint to ensure a uniform finish after activation.



For joints up to 1/2": wet 20 sec/100 sq. ft.

For joints 1/2" to 4": wet up to 45 sec/50 sq. ft. Stop showering when you see water retention on the joints.

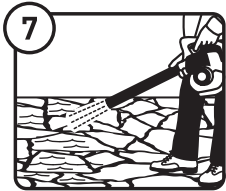
NOCO™ ACTIVATION INSTRUCTION FOR TYPICAL INSTALLATION ON CONCRETE OR CEMENT-SAND BASE

For Flagstones with joints up to 2", interstices up to 4" and stone thickness up to 2": with your sprayer set at shower, starting at the bottom of the slope, **water each section of 50 sq. ft. for 30 to 45 seconds**. Check for water accumulation at the surface of the jointing product as a cue to stop watering. Wait 30 seconds and verify the depth of activation. If NOCO™ 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 NOCO™ as this will lengthen the curing time and may result in additive wash out in extreme cases.

For imitation European cobblestones with joint with approximately ½" and joint depth 1 ½": with your sprayer set at shower, starting at the bottom of the slope, **water each section of 100 sq. ft. for 20 to 30 seconds**. Check for water accumulation at the surface of the jointing product as a cue to stop watering. Wait 30 seconds and verify the depth of activation. If NOCO™ is activated at 75% or more of its depth stop watering. If activated at less than 75%, water for an additional 10 seconds and check again after 30 seconds. Avoid overwatering NOCO™ as this will lengthen the curing time and may result in additive wash out in extreme cases.

For large slabs* with ¼" joint with your sprayer set at shower, starting at the bottom of the slope, **water each section of 100 sq. ft. for 20 seconds**. Check for water accumulation at the surface of the jointing product as a cue to stop watering. Wait 30 seconds and verify the depth of activation. If NOCO™ is activated at 75% or more of its depth stop watering. If activated at less than 75%, water for an additional 10 seconds and check again after 30 seconds. Avoid overwatering NOCO™ as this will lengthen the curing time and may result in additive wash out in extreme cases.

*It is very easy to overwater installations with large slabs. Carefully track the watering time during the activation process.



Use the leaf blower to remove all excess water from the surface.

END OF SUB-SECTION FOR INSTALLATION ON CONCRETE OVERLAY

COVERAGE

For a 50 lb bag:
Joints up to ½": up to 120 sq. ft. per bag.
Wide joints (flagstone): 20 to 40 sq. ft. per bag.

STORAGE AND SHELF LIFE

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

SAFETY WARNINGS

For information and advice regarding transportation, handling, storage, first aid and disposal of chemicals products, users should **refer to the Safety Data Sheet** containing physical, ecological, toxicological and other safety-related data.
KEEP OUT OF THE REACH OF CHILDREN.

EMERGENCY PHONE: CANUTEC (613) 996-6666.

SHIPPING

Land and sea

NOT REGULATED

PACKAGING

Joining Product	Product Code	Color	Retail Size	Units per pallet
NOCO™	40104121	Desert Tan	50 lb (bag)	56
	40104120	Iron Grey	50 lb (bag)	56

TECHNICAL INFORMATION

Properties	Test method	Specification
Mohs Hardness Scale		>5 for grey >6 for tan
Compression Strength	ASTM C-109*	> 750 psi (5,2 MPa)
Water Absorption (15 minutes)	ASTM C-642*	< 5%

*Sample preparation adapted for water activated product. Compression Strength measured on non-vibrated sample.

LIMITED 20-YEAR WARRANTY

Manufacturer, having no control over the use of this Product, does not guarantee finished work. This Limited 20-Year Warranty (hereinafter “warranty”), exclusively covers all residential installations (single or multi-unit exclusively residential). Replacement or refund of any product proven defective shall be the buyer’s sole remedy under this warranty. This product will perform its intended function when installed in accordance with its packaging instructions, technical data sheets instructions, and standard industry practices (ICPI Tech Spec #2). It is the sole responsibility of the user to determine the suitability and compatibility of this product for the intended use before installing it. No representation, promise, pre-approval, affirmation, statement, or demonstration by any employee of TECHNISEAL® or its distributors shall modify or supersede the terms of this warranty. This warranty applies only to NOCO™ used on the installation, and replaces all previous warranties. This warranty lasts so long as the job installation remains unchanged by the original owner and is none transferable, and shall end as specified in this warranty. To the extent permitted by law, all other warranties, including, but not limited to, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. ANY IMPLIED WARRANTIES ARISING BY OPERATION OF LAW ARE LIMITED IN DURATION TO THE TERM OF THIS EXPRESS LIMITED WARRANTY.

Manufacturer will not be liable for damage or loss resulting from the following: structural failure; inadequate surface or sub-surface; inadequate job configuration; Acts of God; product misuse or modified; failure to comply with the packaging instructions, technical data sheets instructions, and standard industry practices; wear and tear from normal usage; cracking due to structural movement; excessive deflection due to heavy landscaping machinery, delivery truck, or waste collection truck or other failure of the substrate. IN NO EVENT SHALL TECHNISEAL® BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF SALES OR PROFITS; BUSINESS INTERRUPTION OR DOWNTIME; INCREASED EXPENSE OF OPERATION; DAMAGE TO OTHER MATERIALS OR PROPERTY; OR LOSS OF USE OF PROPERTY. Proof of purchase is required for any claim. The above terms and conditions are applicable for commercial use, mix-use and institutional use except that the applicable period is limited to 1 year from the date of purchase.