Techniseal®
Protect and Beautify

LIMITED 20 YEAR WARRANTY



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 1.5 mm to 10 cm (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.

OSHA® 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.

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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: 1.5 mm (1/16")
Maximum joint width: 10 cm (4")
Minimum joint depth: 4 cm (1.5")*

* For installation on porcelain tiles that are less than 4 cm (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 13 mm (1/2") (natural stone), 48 hours without rain is recommended.

Installation Conditions:

- Bedding must be made of 0 to 5 mm (3/16") dense graded sand. Install over a drainage base and bed (sand-set) as per ICPI recommendations.
- Temperature must be above 0°C 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 colour 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 16 mm (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.



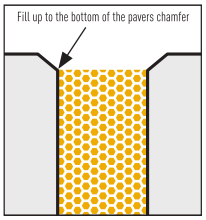
5. Pass the plate compactor* over the entire surface a second time.



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 3 mm (1/8") below top of pavers or up to the bottom of the chamfer.



9. Starting from bottom of the slope, quickly shower a 20 m^2 (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 13 mm (1/2"): wet sections no larger than 4.6 m^2 (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, colour and grain size may vary. • This product starts repelling water only a few minutes after initial wetting - wet no more than 20 m^2 (200 sq. ft.) of surface at a time. • Do not sweep product over asphalt.

COVERAGE

For a 22.7 kg (50 lb.) bag : Narrow joints: 6 to 11 m^2 (60 to 120 sq. ft.). Wide joints: 2.3 to 4 m^2 (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	Colour	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

Colour varies from one region to another. Shipping fees will be added to non-local sands.
Consult your Techniseal dealer for colour 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.

OSHA® Occupational Safety and Health Administration

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/m^3. 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.