

NextBase[™] Panel Base System



UPDATE

August 3rd, 2023

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

- Drycast & wetcast concrete pavers, slabs (or patio stones), natural stones and porcelain tile installations
- For patios, walkways, sidewalks, paths, pool decks and other pedestrian areas
- For seating walls
- Not for vehicular applications

PROPERTIES

- Easy & fast to install
- Saves up to 20 cm (8 in) of excavation
- Proven solution - Each panel replaces up to 136 kg (300 lb) of base aggregates
- Interlocking system for an optimal connection between panels
- Ideal for pavers, porcelain tiles and natural stone installations
- Durable - will not degrade in the ground
- Versatility at installation - Panels can be rotated at a 90° angle to form locking patterns without cutting being needed.
- Integrated cutting marks every 7,6 cm (3 in) to customize panel dimensions
- Improved water drainage capacity

DESCRIPTION

NextBase[™] is the new generation of high-density panel base system that replaces traditional compacted aggregate-base installations. It provides great stability to hardscape installations while reducing the required excavation. NextBase[™] panels are easy to cut and feature drainage holes, slopes and channels for water control and an interlocking system for added stability.

DIRECTIONS

BEFORE YOU BEGIN

BEFORE PROCEEDING WITH THE INSTALLATION, MAKE SURE YOU HAVE AN UP-TO-DATE TECHNICAL DATA SHEET BY VISITING TECHNISEAL.COM.

Necessary tools:

- Measuring tape
- Leveling strings and stakes
- Rake or shovel
- Hand tamper or plate compactor
- Straight leveling board
- Necessary tools to install paver edging and jointing sand
- Utility knife

INSTALLATION INSTRUCTIONS**STEP 1: DETERMINING THE DEPTH AND AREA OF TOTAL EXCAVATION AND EXCAVATING**

The total depth of excavation should include the geotextile and leveling sand (typically 1,3 cm (1/2")), the thickness of NextBase™ 1,9 cm (3/4") and the height of the pavers. On average, the total excavation depth should be approximately 9,2 cm (3 5/8"). The total area of excavation should be a minimum of 15 cm (6") wider on each side than the dimensions of the finished paved area.

Example:

Compacted bedding sand	1,3 cm (1/2")
NextBase™	1,9 cm (3/4")
Paver thickness	6,0 cm (2 3/8")
Total depth	9,2 cm (3 5/8")

Important! Prior to excavation, always make sure to locate any underground utilities.

**STEP 2: LEVELING AND COMPACTING THE BASE**

Level the excavated area using a rake or a shovel. Ensure there is a slight slope away from the house. The slope should be about 0.5 cm per 30 cm (1/4" per foot). Using a plate compactor (preferred) or hand tamper, compact the ground adequately and ensure the surface is as smooth as possible, making sure to get rid of high and low spots (± 1 cm over 3 m ($\pm 3/8$ " over 10 ft.)). Be sure to utilize a string level using stakes and string lines to establish the proper slope of the final surface of the paved area. Use a hand tamp to compact any areas you were unable to reach with a plate compactor.





STEP 3: LAYING GEOTEXTILE

Lay down geotextile fabric (weed barrier) to cover the excavated area. Ensure the weed barrier fabrics overlap by at least 5 cm (2") and extend slightly beyond the paver area.



STEP 4: ADDING BEDDING SAND

Spread an even layer of sand to a depth of 2 cm (3/4") on top of the geotextile fabric. Screenshot the sand using a straight board and two 2 cm (3/4") outside diameter screed rails (pipes). Once the sand has been spread, remove the screed rails and fill in the voids. Using a plate compactor or hand tamper, compact the sand until a final sand height of approximately 1.3 cm (1/2") is reached.





STEP 5: INSTALLING NEXTBASE™ PANELS

Install NextBase™ panels over the bedding sand. Start against a straight edge, according to a staggered pattern. Panels can be rotated at a 90° angle to form locking patterns without cutting being needed. Ensure the edges of each panel overlap using the interlocking system. Cut any visible curves and angles that are beyond the excavated area using a utility knife. Cutting marks every 7,6 cm (3") are available to customize panel dimensions. The NextBase™ installation should extend 15 cm (6") on each side of the final exposed paved surface.



STEP 6: INSTALLING PAVERS

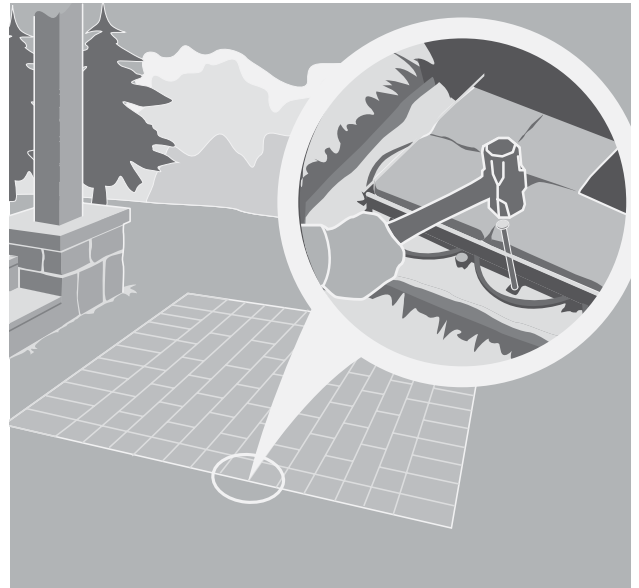
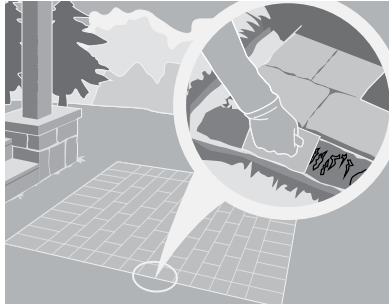
Lay pavers, natural stones, or porcelain tiles directly over the NextBase™ panels in conjunction with spacers, as needed. Make sure to keep an extra 15 cm (6") wide space beyond paver surface for edge restraint. As an easy reference, you may count 2 squares from the edge of the panel (1 square = 7,6 cm = 3"). You may slide pavers into place. If paver line is crooked, hammer the row back in place with a rubber mallet.

Optional: For installations with pavers or natural stone, it is acceptable to add sand on top of the NextBase to level the height in case of variability in the thickness of the pavers or uncalibrated natural stone.



STEP 7: INSTALLING EDGE RESTRAINTS

Once all pavers are in place, install Techniseal® edge restraints on the NextBase™, making sure it rests firmly against the pavers. Then, hammer Techniseal paver edging nails into the edge restraints and NextBase™ for maximum lateral support. EDGE BOND™ Hardscape Concrete Edging is an alternative to be used in conjunction with NextBase™. Cutting panels at the edge of the pavers is then required.



STEP 8: INSTALLING TECHNISEAL JOINTING SAND

The last step is the installation of a Techniseal jointing product between pavers to prevent joint erosion as well as weed growth and insect infestation. Follow jointing product instructions carefully on the bag or by visiting techniseal.com.



CONSTRUCTION OF SEATING WALLS OR FIREPLACES

For building seating walls or fireplaces, the NextBase™ panel must extend the perimeter at least 30 cm (12") beyond the outside edge of the blocks for a seating wall or fireplace. For fireplaces, it will be necessary to ensure that there is a thermal barrier (sand, pavers, refractory bricks or air chamber) between the panel and the heat source. Install pavers on each side of the wall or, if there are no pavers, secure the wall using the appropriate methods.

PHYSICAL PROPERTIES

Material Type	Expanded Polypropylene (EPP)	
Material Thickness	19 mm (0.75 in)	
Material Density	55 grams / litre (3.43 lbs / cubic ft)	
Part Dimensions	Overall usable surface dimensions: 0.57 m ² (6.125 pi ²)	
Part Weight	572g (1.26 lb) per panel	
Tensile Strength	101.5 psi	ISO 1798
Tensile Elongation	11%	ISO 1798
Vertical Permeability	>254 cm / h (>100 in / h)	EN 12616
Thermal Expansion - per 1°C change	0.025 cm / m (0.003 in / ft)	ISO 4897
Compression Set-Static load (50% strain, 22 hrs. 23 °C after 24 hrs)	38%	ISO 1856c
Thermal Resistance R Value (per 25mm (1") thickness)	3.6 per 25 mm	
Microbiological / Chemical Resistance Chemical resistance	No detrimental effects	

THERMAL PROPERTIES

Thermal conductivity	0.264 BTU-in/hr-ft ² -°F	DIN 52612
Melting point	120-180 °C (248-356 °F)	
Decomposition Temperature	≥ 180 °C (356 °F)	
Flash point	≥ 200 °C (392 °F)	ASTM D1929
Ignition temperature	> 182 °C (360 °F)	ASTM D1929
Dimensional stability at heat	<2%	Linear size alterations after 4 d, 110 °C; DIN ISO 2796

COVERAGE

One NextBase™ panel covers 0.57 m² (6.125 sq. ft.)

PACKAGING

NextBase™	Product Code	Colour	Size	Units per pack	Packs per pallet	Units per pallet
NEXTBASE	70971011	Black	55,25 cm X 108,59 cm X 19 mm (21 3/4" X 42 3/4" X 0.75")	10	12	120

WARNING

For more information and advice on the proper handling, storage, and disposal of this product, if applicable, 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, if applicable, 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:

Having no control over the use of the products, Techniseal® 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. 4 sq. ft.) under projected conditions of use. In the event that no test was carried out, the warranty will only apply to 4 sq. ft. This limited warranty excludes any liability for any consequential, incidental, indirect or special damages. Except for the limited warranty described above, manufacturer specifically disclaims and excludes any other express warranty, any implied warranty of merchantability of goods, and implied warranty of fitness of goods for any particular purpose.