

## NextBase<sup>™</sup> Panel Base System



### UPDATE

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**JJanuary 25<sup>th</sup>, 2023**

Make sure that you have an up-to-date technical data sheet in hand by consulting our website: [techniseal.com](http://techniseal.com)  
U.S.A. and Canada: dial 1 800 465-7325  
Others: dial (514) 523-8324 (Canada)

### APPLICATIONS

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- 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

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- Easy & fast to install
- Saves up to 8 inches of excavation
- Proven solution - Each panel replaces up to 300 lbs 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 3" to customize panel dimensions
- Improved water drainage capacity

### DESCRIPTION

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NextBase<sup>™</sup> 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<sup>™</sup> panels are easy to cut and feature drainage holes, slopes and channels for water control and an interlocking system for added stability.

### DIRECTIONS

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#### BEFORE YOU BEGIN

**BEFORE PROCEEDING WITH THE INSTALLATION, MAKE SURE YOU HAVE AN UP-TO-DATE TECHNICAL DATA SHEET BY VISITING [TECHNISEAL.COM](http://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 1/2" compacted), the thickness of NextBase™ (3/4") and the height of the pavers. On average, the total excavation depth should be approximately 3 5/8". The total area of excavation should be a minimum of 6" wider on each side than the dimensions of the finished paved area.

Example:

|                        |                        |
|------------------------|------------------------|
| Compacted bedding sand | 1/2" (1.3 cm)          |
| NextBase™              | 3/4" (1.9 cm)          |
| Paver thickness        | 2 3/8" (6.0 cm)        |
| <b>Total depth</b>     | <b>3 5/8" (9.2 cm)</b> |

*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 1/4" per foot (0.5 cm per 30 cm). 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 ( $\pm 3/8"$  over 10 ft. ( $\pm 1$  cm over 3 m)). 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 2" (5 cm) and extend slightly beyond the paver area.



### STEP 4: ADDING BEDDING SAND

Spread an even layer of sand to a depth of 3/4" (2 cm) on top of the geotextile fabric. Screed the sand using a straight board and two 3/4" (2 cm) 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 1/2" (1.3 cm) 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 3" (7.6 cm) are available to customize panel dimensions. The NextBase™ installation should extend 6" (15 cm) on each side of the final exposed paved surface.



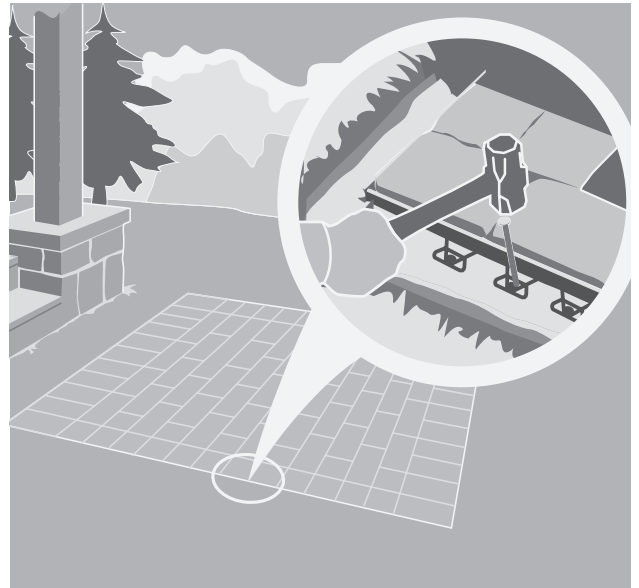
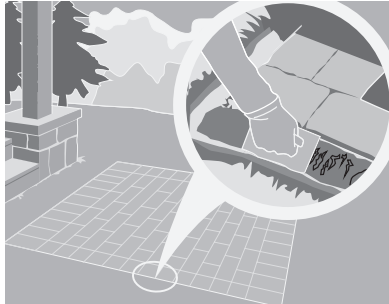
#### STEP 6: INSTALLING PAVERS

Lay pavers, natural stones, or porcelain tiles directly over the NextBase™ panels in conjunction with spacers, as needed. Make sure to keep an extra 6" (15 cm) 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 = 3" = 7,6 cm). You may slide pavers into place. If paver line is crooked, hammer the row back in place with a rubber mallet.



### 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](http://techniseal.com).



## CONSTRUCTION OF SEATING WALLS OR FIREPLACES

For building seating walls or fireplaces, the NextBase™ panel must extend the perimeter at least 12" (30 cm) 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

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

## THERMAL PROPERTIES

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

## COVERAGE

One NextBase™ panel covers 6.125 sq. ft. (0.57 m<sup>2</sup>)

## PACKAGING

| NextBase™       | Product Code | Color | Size  | Units per pack | Packs per pallet | Units per pallet |
|-----------------|--------------|-------|---|----------------|------------------|------------------|
| <b>NEXTBASE</b> | 70971011     | Black | 21 3/4" X 42 3/4" X 0.75"<br>(55,25 cm X 108,59 cm X 19 mm) | 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](http://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

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## LIMITED WARRANTY:

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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.