



## 5-Year Pothole Patch: Highway Grade Concrete (25lb | 45lb Bucket Kit)

For more information, visit [TechniSoil.com](http://TechniSoil.com)



### FEATURES & BENEFITS:

5-Year Pothole Patch: Highway Grade Concrete is the strongest pothole patch in the world! The fast setting plasticomposite patching material meets the most stringent demands for repairing vertical wall potholes in high volume traffic areas such as concrete freeways, bridge decks, and heavy-traffic aprons. With required mechanical compaction, 5-Year Concrete Pothole Patch cures to a compressive strength value up to 6500 PSI. Highways, streets, and parking lots can be opened for use immediately after compaction, making it a fast and strong asphalt repair solution.

- **Compressive strength of 6500PSI**
- **Repairs vertical wall potholes in high use, heavy traffic areas**
- **Available in 25 lb and 45 lb bucket kits**
- **Requires mechanical compaction to achieve highest bond**
- **Proudly manufactured in the U.S.A.**

### COVERAGE RATE:

**TechniSoil Global, Inc.**

Phone: 877-356-2250

Fax: 866-356-8880

Email: [Info@TechniSoil.com](mailto:Info@TechniSoil.com)

**Innovation For Modern Landscapes**

[TechniSoil.com](http://TechniSoil.com)





# 5-Year Pothole Patch: Highway Grade Concrete

(25lb | 45lb Bucket Kit)

For more information, visit [TechniSoil.com](http://TechniSoil.com)

<b>TrowelPave 25LB BUCKET KIT</b> <b>VOLUME: 370IN<sup>3</sup>   0.21FT<sup>3</sup>   6044CM<sup>3</sup></b> <b>AREA:</b> <table border="1"> <tr> <td>10<sub>FT<sup>2</sup></sub></td> <td>5<sub>FT<sup>2</sup></sub></td> <td>2.5<sub>FT<sup>2</sup></sub></td> <td>1.3<sub>FT<sup>2</sup></sub></td> </tr> <tr> <td><math>\frac{1}{4}</math>"</td> <td><math>\frac{1}{2}</math>"</td> <td>1"</td> <td>2"</td> </tr> </table>				10 <sub>FT<sup>2</sup></sub>	5 <sub>FT<sup>2</sup></sub>	2.5 <sub>FT<sup>2</sup></sub>	1.3 <sub>FT<sup>2</sup></sub>	$\frac{1}{4}$ "	$\frac{1}{2}$ "	1"	2"	<b>TrowelPave 45LB BUCKET KIT</b> <b>VOLUME: 662IN<sup>3</sup>   0.38FT<sup>3</sup>   10832CM<sup>3</sup></b> <b>AREA:</b> <table border="1"> <tr> <td>18<sub>FT<sup>2</sup></sub></td> <td>9<sub>FT<sup>2</sup></sub></td> <td>4.5<sub>FT<sup>2</sup></sub></td> <td>2.3<sub>FT<sup>2</sup></sub></td> </tr> <tr> <td><math>\frac{1}{4}</math>"</td> <td><math>\frac{1}{2}</math>"</td> <td>1"</td> <td>2"</td> </tr> </table>				18 <sub>FT<sup>2</sup></sub>	9 <sub>FT<sup>2</sup></sub>	4.5 <sub>FT<sup>2</sup></sub>	2.3 <sub>FT<sup>2</sup></sub>	$\frac{1}{4}$ "	$\frac{1}{2}$ "	1"	2"
10 <sub>FT<sup>2</sup></sub>	5 <sub>FT<sup>2</sup></sub>	2.5 <sub>FT<sup>2</sup></sub>	1.3 <sub>FT<sup>2</sup></sub>																				
$\frac{1}{4}$ "	$\frac{1}{2}$ "	1"	2"																				
18 <sub>FT<sup>2</sup></sub>	9 <sub>FT<sup>2</sup></sub>	4.5 <sub>FT<sup>2</sup></sub>	2.3 <sub>FT<sup>2</sup></sub>																				
$\frac{1}{4}$ "	$\frac{1}{2}$ "	1"	2"																				

## SAFETY INFORMATION:

### ISOCYANATE DISCLOSURE

This product contains isocyanate, and although rare, may produce an allergic reaction in some people. Persons allergic to isocyanate, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanate. When working with this product, always use **Personal Protective Equipment (PPE)** including;

- > Safety glasses / face shield
- > Impenetrable gloves
- > Long sleeve shirt
- > Long pants
- > Close-toe shoes or boots

### AVOID DIRECT CONTACT WITH SKIN

In any case of liquid binding agent or blended material making contact with skin or clothes, clean immediately with soap and water.

## TOOLS:

### BASIC

- > TrowelPave Mixing Wand
- > TrowelPave Mixing Bucket w/ optional lid
- > TrowelPave Mixing Bucket Grip
- >  $\frac{1}{2}$ " drive cordless drill driver w/ steel chuck and side handle
- > Wheelbarrow
- > Shovel or garden hoe
- > Concrete trowel
- > WD-40® and/or PAM® cooking spray
- > Cleaning rags or towels

### OPTIONAL

- > For large projects;
  - o Poly or steel drum paddle mixer
  - o 36" grade rake
  - o Screed board
  - o Hand tamp
  - o Steel drum walk-behind roller
  - o Vibratory plate compactor
  - o Push broom
  - o Shovel
  - o Wheelbarrow



## 5-Year Pothole Patch: Highway Grade Concrete (25lb | 45lb Bucket Kit)

For more information, visit [TechniSoil.com](http://TechniSoil.com)

SUITABLE APPLICATIONS:	
<p><b>APPLICATIONS</b></p> <ul style="list-style-type: none"> <li>➤ Vertical wall potholes</li> <li>➤ Utility cut-outs</li> </ul>	<p><b>PROJECTS</b></p> <ul style="list-style-type: none"> <li>➤ Driveways &amp; parking lots</li> <li>➤ Bridges</li> <li>➤ ADA access ramps</li> </ul>

INSTALLATION:	
<p><b>TOP 5 TIPS</b></p> <ul style="list-style-type: none"> <li>➤ Always wear personal protective equipment (PPE) when mixing and installing 5-Year Pothole Patch including safety glasses, long sleeve shirt, long pants, and a breather mask for prolonged exposure. Avoid skin contact with liquid binding agent. Do not inhale aggregate dust.</li> <li>➤ For optimal results, 5-Year Pothole Patch should be installed in a 50° - 90° F temperature range. Avoid heavy rains, freezing conditions, or extreme heat as it can impede the mixing process and affect the curing phase of blended 5-Year Pothole Patch material.</li> <li>➤ 5-Year Pothole Patch is designed specifically for vertical wall asphalt or concrete pothole repairs on airport runways, military grade roads, and heavy traffic areas. Use a concrete saw or digging bar to create a vertical walled repair area prior to installation. When used for this application and mechanically compacted to 95% or greater, roads can be opened up for use immediately.</li> <li>➤ Each individual 5-Year Pothole Patch batch should be installed no later than 10 minutes after mixing. Initial set will typically occur within 1 hour, at which time the repair area can be opened for use. Initial set is the stage at which the blended material bonds at the surface level allowing minimal abrasion. Allow 24 - 72 hours for complete cure.</li> <li>➤ To aid finishing and compacting of 5-Year Pothole patch blended material, apply PAM® aerosol cooking spray to tools and equipment such as trowels, tamps, and plate compactors. Use WD-40® and a rag to clean tools and equipment immediately after use.</li> </ul>	<p><b>PROJECT PLANNING (continued)</b></p> <ul style="list-style-type: none"> <li>➤ For road and parking area repairs, consider traffic safety for repair and curing time.</li> <li>➤ To reduce the non-operating time of a repair, increase the compaction value by using mechanical compaction via vibratory plate compactor or roller.</li> <li>➤ Avoid icy or freezing conditions as it can extend the curing phase of the blended TrowelPave material.</li> <li>➤ Calculate the amount of 5-Year material needed by finding the cubic feet (or metric equivalent) of the project area.             <ul style="list-style-type: none"> <li>○ Use the coverage generalization chart for estimating purposes.</li> </ul> </li> <li>➤ Consider the amount of 5-Year material needed, labor force, and allowable installation and curing time before starting a large project.             <ul style="list-style-type: none"> <li>○ This will reduce issues with excess material curing before there is time to install.</li> <li>○ Each individual 5-Year batch should be installed no later than 10 minutes after mixing in normal temperature conditions (40° - 90° F).</li> </ul> </li> </ul> <p><b>MIXING: TrowelPave Mixing Kit</b></p> <ul style="list-style-type: none"> <li>➤ For best results, use the <b>TrowelPave Mixing Kit</b> (some items sold separately)             <ul style="list-style-type: none"> <li>○ <b>TrowelPave Mixing Wand</b> <ul style="list-style-type: none"> <li>■ For use with ½" drill w/ steel chuck and side handle.</li> </ul> </li> <li>○ <b>TrowelPave Mixing Bucket</b> <ul style="list-style-type: none"> <li>■ 25lb Bucket Kit can be mixed directly in its own bucket.</li> </ul> </li> </ul> </li> </ul>



# 5-Year Pothole Patch: Highway Grade Concrete

## (25lb | 45lb Bucket Kit)

For more information, visit [TechniSoil.com](http://TechniSoil.com)

<p>&gt;</p> <p><b>PROJECT PLANNING</b></p> <p>&gt; <b>Personal Protective Equipment (PPE) is mandatory.</b></p> <ul style="list-style-type: none"> <li>○ Safety glasses / face shield</li> <li>○ Impenetrable gloves</li> <li>○ Long sleeve shirt</li> <li>○ Long pants</li> <li>○ Close-toe shoes or boots</li> </ul> <p><b>MIXING: TrowelPave Mixing Kit (continued)</b></p> <p>&gt; <b>25lb Bucket Kit</b></p> <ul style="list-style-type: none"> <li>○ Make a cone-shaped divot in the middle of the aggregate.</li> <li>○ Pour entire contents of liquid binding agent bottle into divot.</li> <li>○ Insert Mixing Wand and begin to spin, slowly at first, and then progressively faster.             <ul style="list-style-type: none"> <li>■ Take care to avoid spinning the binder out of the bucket before it is tilled into the aggregate.</li> </ul> </li> <li>○ Mix thoroughly until the aggregate color is consistent (it will change colors from start to finish).</li> <li>○ Clean Mixing Wand and other accessories with WD-40® and a rag as needed.</li> </ul> <p>&gt; <b>45lb Bucket Kit</b></p> <ul style="list-style-type: none"> <li>○ Pour ½ of aggregate (approximately 20-25 pounds) into Mixing Bucket.</li> <li>○ Make a cone-shaped divot in the middle of the aggregate.</li> <li>○ Pour approximately half the contents of liquid binding agent bottle into divot.</li> <li>○ Insert Mixing Wand and begin to spin, slowly at first, and then progressively faster.             <ul style="list-style-type: none"> <li>■ Take care to avoid spinning the binder out of the bucket before it is tilled into the aggregate.</li> </ul> </li> <li>○ Mix thoroughly until the aggregate color is consistent (it will change colors from start to finish).</li> <li>○ Pour the remaining aggregate into Mixing Bucket directly on top of blended material.</li> </ul>	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>■ 45lb Bucket Kit requires an additional transfer bucket to mix per recommendations.</li> </ul> </li> <li>○ <b>TrowelPave Mixing Bucket Lid</b></li> <li>○ <b>TrowelPave Mixing Bucket Grip</b> <ul style="list-style-type: none"> <li>■ Fits 25lb and 45lb Bucket Kits, and the Mixing Bucket.</li> </ul> </li> </ul> <p>&gt; Insert Mixing Wand into drill and tighten.</p> <p>&gt; Attach Bucket Grip to bottom of Mixing Bucket.</p> <p><b>MIXING: TrowelPave Mixing Kit (continued)</b></p> <p>&gt; <b>45lb Bucket Kit (continued)</b></p> <ul style="list-style-type: none"> <li>○ Insert Mixing Wand and begin to spin, slowly at first, and then progressively faster.             <ul style="list-style-type: none"> <li>■ Take care to avoid spinning the binder out of the bucket before it is tilled into the aggregate.</li> </ul> </li> <li>○ Mix thoroughly until the aggregate color is consistent (it will change colors from start to finish).</li> <li>○ Clean Mixing Wand and other accessories with WD-40® and a rag as needed.</li> </ul> <p><b>MIXING: Standard Equipment</b></p> <p>&gt; <b>IMPORTANT!</b> Mix entire contents of aggregate bucket and liquid binding agent bottle.</p> <ul style="list-style-type: none"> <li>○ The liquid binding agent should not be stored or reused after opened.</li> </ul> <p>&gt; Pour 5-Year aggregate contents into an appropriately sized mixing container.</p> <ul style="list-style-type: none"> <li>○ Wheelbarrow</li> <li>○ Mixing basin or tub</li> <li>○ Poly or steel drum paddle mixer</li> </ul> <p>&gt; Pour liquid binding agent over aggregate mix.</p> <ul style="list-style-type: none"> <li>○ <b>IMPORTANT!</b> Avoid pouring liquid onto mixing container walls or mixing tools.</li> <li>○ If mixing on a concrete or hardscape surface, place a tarp below to catch any accidental spills.</li> <li>○ Pour entire contents of bottle over aggregates.</li> </ul> <p>&gt; If mixing a wheelbarrow or basin, use a mixing tool to sweep dry aggregate mix over the top of the liquid binding agent.</p>
--	---

## 5-Year Pothole Patch: Highway Grade Concrete (25lb | 45lb Bucket Kit)



For more information, visit [TechniSoil.com](http://TechniSoil.com)

- Make a cone-shaped divot in the middle of the aggregate.
- Pour remaining liquid binding agent bottle into divot.

### MIXING: Standard Equipment (continued)

- If mixing with a electric or gas powered mortar mixer with paddles, mix until aggregates are a consistent color (as explained above).
  - **IMPORTANT!** Do not use a cement mixer as it will not mix aggregate and liquid binding agent thoroughly because of the flopping action while spinning.

### INSTALLATION

- **IMPORTANT!** 5-Year - is designed to cure up to 5 times faster than the TrowelPave Concrete - Regular Set product.
  - Initial set will typically occur within 1 hour in optimal temperature range of 50° - 90° F, at which time the repair area can be opened for use.
  - Initial set is the stage at which the blended material bonds at the surface level allowing minimal abrasion.
  - Allow 24 - 72 hours for complete cure.
- **IMPORTANT!** For best results, do not install over standing water or during a heavy rain event except in emergency situations.
  - Damp situations are suitable for repair
  - In repair areas with standing water, remove excess standing water before installing 5-Year.
- In areas deeper than 4" it is recommended to install a crushed base rock material as a subbase for the 5-Year material.
- **IMPORTANT!** Blended material should be installed within 10 minutes of mixing.
  - If working in a large area, plan mixing output accordingly to match installation speed.
- For best results, clean repair area thoroughly and remove any loose dust and debris.

- Once uniformly covered, begin mixing in a back and forth motion and turn over to mix material thoroughly.
  - **TIP:** Use back side of shovel to drag materials up the sloped edge of the front of a wheelbarrow during mixing.
  - **TIP:** In between shovel or garden hoe mixing, lean wheelbarrow on its back legs and then forward on the wheel to disperse material better.
- Aggregate mix should uniformly change color throughout once properly mixed (usually a darker color than dry material).

### INSTALLATION (continued)

- Pour blended 5-Year material into or over repair area.
- Using a standard concrete trowel, manipulate material into place.
- 5-Year blended material finish grade will reduce with compaction (by hand with trowel or tamp).
  - Float material approximately 1/8" to 1/4" higher than finish grade to allow for compaction.
- Smooth material to desired grade and aesthetic using a hand trowel.
  - **TIP:** Apply PAM® aerosol cooking spray as needed to trowel to allow for easier workability.
  - **TIP:** With trowel laying flat on blended material, gently move the trowel forward and back in consistent sliding motion to produce a more consistent surface aesthetic.
  - Blended material can be manipulated easily with a trowel to fill cracks, divots, and holes of varying depth.
  - Fill low spots with uncompacted material, trowel, and compress as needed to desired finish.
- Compact material thoroughly.
  - **IMPORTANT!** Unlike the TrowelPave Asphalt, mechanical compaction of TrowelPave Concrete with a vibratory plate compactor is **not** recommended.
  - For small repair areas, use a metal or rubber based hand tamp and trowel to pack down material evenly.
  - A lightweight hand roller can be used in large, flat areas.



## 5-Year Pothole Patch: Highway Grade Concrete (25lb | 45lb Bucket Kit)

For more information, visit [TechniSoil.com](http://TechniSoil.com)

- Keep the repair area dry.
- If water or pressure washing is needed, allow the area to dry before proceeding.
- Chip loosely connected surface materials out to help prevent future deterioration of existing asphalt or concrete.

### CLEANUP

- Clean any tools and equipment with WD-40® and a dry cloth as needed.
- In case of accidental liquid binding agent spill onto tools, equipment, or concrete / hardscape surface, clean immediately with WD-40® and a dry cloth as needed.
  - For dried binder, use acetone and a dry cloth or brush to scrub affected areas.
- In case of accidental liquid binding agent spill onto skin or clothes, clean immediately with soap and water.

### STORAGE

- Store unopened / unused 5-Year bucket kits out of direct sunlight in areas with a temperature range of 40° - 90° F.
  - Do not allow material to freeze
- Liquid binding agent should not be stored after opening as it can begin slowly curing inside the bottle once air is introduced.

### MAINTENANCE

- 5-Year blended material adheres to itself making future maintenance or repairs easy where the existing asphalt or concrete has continued to degrade.
- 5-Year is a permanent solution that does not require regular or any maintenance in most situations.

- Thorough compaction will increase compressive strength and reduce both cure and inoperable times.
- Brush loose 5-Year material away by hand using a whisk broom or handheld blower
- Keep project area free from foot or vehicular traffic up to 1 hour if possible.
  - Turn off any nearby irrigation sprinklers where water may reach the repair.
  - Observe and enforce local road safety guidelines when repairing vehicular traffic areas.

### WARRANTY

- TechniSoil Global, Inc. warrants this product to be free from defects. Where permitted by law, TechniSoil makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose. The purchaser shall be responsible to orchestrate their own tests to determine the suitability of this product for their particular purpose. TechniSoil's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which product proven to be defective has been applied. Acceptance and use of this product absolves TechniSoil from any other liability, from any and all sources, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of TechniSoil, its distributors or dealers, independent contractors, clients or end-users of any kind.