

# TrowelPave Concrete

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## FEATURES & BENEFITS:

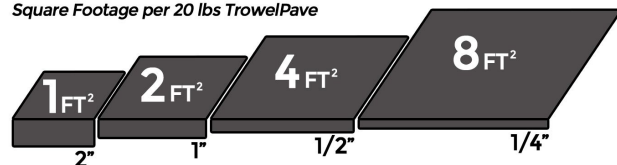
TrowelPave Concrete is a permanent, free-form leveling compound for concrete pavement repair and renovation. The patented installation technology is commonly used for potholes, transition repair, overlays, and ADA compliant ramps. TrowelPave is a kit for the DIY and Contractor available in two handy sizes, 20 or 40 pound reusable buckets. The environmentally safe mix trowels into place by hand and smooths over jagged surfaces forging a bond strong enough for heavy equipment traffic.

- Commonly used for cracks, expansion joints, holes, lifted sections, & more
- Strong, durable, permanent concrete repair
- Supports car, truck, forklift, & heavy equipment traffic
- Leveling compound for adjoining uneven surfaces
- Finish & compact with a standard concrete trowel
- Feather edge mix design
- Proudly manufactured in the U.S.A.

## COVERAGE RATE:

**294 IN<sup>3</sup> | 0.17 FT<sup>3</sup> | 4814 CM<sup>3</sup>**  
US METRIC  
**PER 20 LBS TrowelPave™**

Square Footage per 20 lbs TrowelPave





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## 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
- > ½" 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 **TrowelPave Bulk** or 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

## SUITABLE APPLICATIONS & MATERIALS:

### ASPHALT

- > Driveways
- > Parking lots
- > Roads
- > Golf cart trails
- > Encroachments
- > ADA ramps

### CONCRETE

- > Driveways
- > Parking lots
- > Sidewalks
- > Walkways & Patios
- > Sports courts
- > ADA ramps



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## INSTALLATION:

### PROJECT PLANNING

- For road and parking area repairs, consider traffic safety for repair and curing time
- To reduce the non-operating time of a repair, increase the compaction value by using mechanical compaction via vibratory plate compactor or roller
- Avoid icy or freezing conditions as it can extend the curing phase of the blended TrowelPave material
- Calculate the amount of TrowelPave material needed by finding the cubic feet (or metric equivalent) of the project area
  - Use the coverage generalization chart for estimating purposes
- Consider the amount of TrowelPave material needed, labor force, and allowable installation and curing time before starting a large project
  - This will reduce issues with excess material curing before there is time to install
  - Each individual TrowelPave batch should be installed no later than 20 minutes after mixing in normal temperature conditions (40° - 90° F)
- **Personal Protective Equipment (PPE) is mandatory**
  - Safety glasses / face shield
  - Impenetrable gloves
  - Long sleeve shirt
  - Long pants
  - Close-toe shoes or boots

### MIXING: TrowelPave Mixing Kit

- For best results, use the **TrowelPave Mixing Kit** (items sold separately)
  - **TrowelPave Mixing Wand**
    - For use with ½" drill w/ steel chuck and side handle
  - **TrowelPave Mixing Bucket**
  - **TrowelPave Mixing Bucket Lid**
  - **TrowelPave Mixing Bucket Grip**
- Insert Mixing Wand into drill and tighten
- Attach Bucket Grip to bottom of Mixing Bucket

### MIXING: TrowelPave Mixing Kit (continued)

- **TIP:** For ease of use and limited strain to drill, it is recommended to mix 20-pounds of TrowelPave at a time.
- Pour ¾ of aggregate (approximately 13-14 pounds) into Mixing Bucket
- Make a cone-shaped divot in the middle of the aggregate
- Pour entire contents of liquid binding agent bottle into divot
- Insert Mixing Wand and begin to spin, slowly at first, and then progressively faster
  - Take care to avoid spinning the binder out of the bucket before it is tilled into the aggregate
- Mix thoroughly until the aggregate color is consistent (it will change colors from start to finish)
- Clean Mixing Wand and other accessories with WD-40® and a rag as needed

### MIXING: Standard Equipment

- **IMPORTANT!** Mix entire contents of aggregate bucket and liquid binding agent bottle
  - The liquid binding agent should not be stored or reused after opened
- Pour TrowelPave aggregate contents into an appropriately sized mixing container
  - Wheelbarrow
  - Mixing basin or tub
  - Poly or steel drum paddle mixer
- Pour liquid binding agent over aggregate mix
  - **IMPORTANT!** Avoid pouring liquid onto mixing container walls or mixing tools
  - If mixing on a concrete or hardscape surface, place a tarp below to catch any accidental spills
  - Pour entire contents of bottle over aggregates
- If mixing a wheelbarrow or basin, use a mixing tools to sweep dry aggregate mix over the top of the liquid binding agent
- Once uniformly covered, begin mixing in a back and forth motion and turn over to mix material thoroughly



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## MIXING: Standard Equipment (continued)

- **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)
- If mixing with a electric or gas powered mortar mixer with paddles, mix until aggregate 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!** 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 TrowelPave
- TrowelPave can be used to repair free-form areas from ¼" up to 4" with varying levels of depth throughout
- In areas deeper than 4" it is recommended to install a crushed base rock material as a subbase for the TrowelPave material
- **IMPORTANT!** Blended material should be installed within 15 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
  - 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
- Allow 24 - 72 hours for TrowelPave to fully cure

## CLEANUP

## INSTALLATION (continued)

- Pour blended TrowelPave material into or over repair area
- Using a standard concrete trowel, manipulate material into place
- TrowelPave blended material finish grade will reduce with compaction (by hand with trowel, with tamp, or by mechanical compaction)
  - Float material approximately ⅛" to ¼" 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 by hand using a concrete trowel in a flat, patting motion
  - For larger repair areas, use a metal or rubber based hand tamp
  - A vibratory plate compactor or roller can be used in large, flat areas if desired
  - Thorough compaction will increase compressive strength and reduce cure time, but mechanical compaction is not required
- Brush loose TrowelPave material away by hand using a whisk broom or handheld blower
- Keep project area free from foot or vehicular traffic for 2 - 4 hours if possible
  - Turn off any nearby irrigation sprinklers where water may reach the repair
  - In the event of rain during installation or immediately afterward, cover the repair area with a tarp
  - Observe and enforce local road safety guidelines when repairing vehicular traffic areas



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- 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 TrowelPave 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

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

## 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.