

## Thick Repair Mortar

Durável TRM is a fiber reinforced, heavy duty cement repair mortar system engineered to fill holes and gouges, build ramps, and correct slope. Duravel TRM can be used for neat repairs as much as two inches thick and taper down to nearly a feather edge on horizontal surfaces. Pea gravel can be added for repairs up to four inches deep. Duravel TRM is formulated specifically as a repair mortar that will gain strength quickly without shrink cracking. The just-add-water mortar system is installed with conventional concrete tools. Superior bond strength is achieved by using in conjunction with Durável LBA bonding agent.

### Typical Uses:

Fiber-Reinforced Heavy-Duty Mortar System Used to Repair and Restore Concrete

- **Driveways, parking lots and decks**
- **Sidewalks and entranceways**
- **Loading docks and ramps**
- **Warehouse and storage floors**
- **Stairways and steps**

### Product Advantages:

- **High compressive strength**
- **Fiber reinforced tensile and flexural strength**
- **Just-add-water formula**
- **Resists freeze-thaw cycling**
- **Repairs up to 2" thick and feather to near zero**

### Coverage:

Use neat to Fill spalls and damaged areas in thicknesses up to 2" per lift,. For repairs more than 2" in depth, 20% washed pea gravel is be added to the mix 10 pounds gravel per 50 pound mix).

.43 cu ft per bag.

COVERAGE ½" Thickness = 11 ft<sup>2</sup> (1 m<sup>2</sup> @ 13 mm)

1" Thickness = 5.5 ft<sup>2</sup> (.5 m<sup>2</sup> @ 25.4 mm)

2" Thickness w/ pea gravel = 3.3 ft<sup>2</sup> (.31 m<sup>2</sup> @ 50.8 mm)

3" Thickness w/ pea Gravel = 2.2 ft<sup>2</sup> (.2 m<sup>2</sup> @ 76.2 mm)

4" Thickness w/ pea Gravel = 1.7 ft<sup>2</sup> (.15 m<sup>2</sup> @ 101.6mm)

### Water Demand:

3 to 4 Qt (2.8 to 3.8 L)

### Cure Times:

Initial Set - 2 to 6 hrs.

Full Cure - 28 days

### Pot Life:

30 mins.

### Application Temperature:

45° to 90° F (7° to 32° C)

### VOC:

Less than 10 g/L

### Packaging:

50 lb (22.7 kg) bags (approx. 0.46 CF)

**FOR PROFESSIONAL USE ONLY**

# Technical Data Sheet

## Storage:

Store unopened bags in a cool, dry location. Protect from excessive humidity. The opened product should be stored in tightly sealed containers. Store in a secure location, accessible by authorized persons only.

## Directions for Use:

## Substrate Preparation:

**SOUND:** Concrete that is failing due to poor placement or extensive environmental abuse should be replaced, not repaired. Cracks and joints in concrete should always be treated as moving, with the possibility they will continue moving after the overlay is placed, leading to cracking of the overlay. Expansion joints must always be honored since they allow movement in the slab. Large holes and divots in the surface should be filled in lifts, or with a suitable material. Flexible joint sealants should only be applied after the overlay is completed and cured. Expectations should be set with the client before the commencement of the project so they understand that the overlay, when bonded properly, will move as the concrete substrate does.

**CURED:** All concrete must be sufficiently cured to allow for proper hydration. The recommended cure time is 28 days, depending on temperature and humidity.

**CLEAN:** Surfaces to be overlaid should be free of contaminants and readily accept water. All potential contaminants on the surface must be removed, including but not limited to: dust, dirt, oil, grease, paints, glues, sealer, curing agents, releases, efflorescence, chemical contaminants, rust, or algae. Even if grinding is the preferred preparation method, it is critical to clean the surface first to keep from pushing contaminants into the pores of the concrete during the grinding process.

**PROFILED:** Acid etching is not an acceptable option for smooth or power-troweled surfaces. A water drop test should be performed to ensure water quickly penetrates the surface and darkens it. If water beads on the surface for longer than 15 seconds the concrete is not porous and must be mechanically profiled by shot blasting or diamond grinding. Concrete must be profiled to a CSP-2 or CSP-3 for proper bonding. The surface must be cleaned entirely after the mechanical preparation process; remove all dust.

**ENVIRONMENTAL CONDITIONS:** The substrate temperature during application and curing must be between 45 and 90 deg. F (7 and 32 C). Excessive wind and/or sun exposure may adversely affect hydration and cure. Schedule exterior work to protect the overlay from rain for twelve hours after the application is completed.

## Mixing Instructions:

Mix single bags in clean 5-gallon pails with a helical mixing blade or use mortar mixer for multiple bags. Water demand varies with environmental conditions and application, between 3 and 4 quarts per bag (2.8 to 3.8 liters). For best results and longest pot life use clean, cold water – run hot water out of hoses prior to using for mixing – and keep bags cool by not storing in direct sun. Measure mix water into mixing vessel. While mixing slowly add the bag contents then mix to a lump-free consistency, being sure to scrape any unmixed product from the sides and bottom of the mixing vessel. Product must be thoroughly wetted prior to adding pea gravel (if applicable). Mixed product should be applied promptly. If the product stiffens in the bucket dispose of the mix, do not add more water.

# Technical Data Sheet

## Application Instructions:

Follow instructions for Durável LBA liquid bonding agent to prime substrate prior to the application of Durável TRM repair mortar. Apply repair while the bonding agent is still tacky. Pour out mixed product onto the primed repair area then spread with trowels and/or squeegees. Durável TRM may be applied neat at thickness up to 2". Use product in lifts for thicker repairs. When blended with washed pea gravel, Durável TRM may be applied at thicknesses between 2" and 6". Do not apply Durável TRM in locations which are permanently submerged.

## Clean Up:

Clean tools and mixing vessels with water. Capture runoff as necessary to protect downstream surfaces. If needed, remove product from adjacent surfaces before it dries. Dried product may be loosened with light acids; test an inconspicuous spot to ensure that the surface is not damaged by the cleaning process.

## Maintenance:

Durável TRM may be applied as a stand-alone repair or used to prepare for overlay systems. Keep the finished surface clean with leaf blowers, hose-pressure water and mild detergents. Using a pressure washer for cleaning will hasten abrasion and shorten the overlay service life.

## Cured Physical Properties:

**DENSITY:** 108 pounds/ft<sup>3</sup> (1,730 kg/m<sup>3</sup>)

**COMPRESSIVE STRENGTH – ASTM C-109:** 6,128 PSI at 28 days (42,251 kPa)

**FLEXURAL STRENGTH – ASTM C-348:** 800 PSI at 28 days (5,516 kPa)

**TENSILE STRENGTH – ASTM C-190:** 910 PSI at 28 days (6,274 kPa)

**ABRASION RESISTANCE – ASTM D-4060:**

1 day = 1 gram lost

7 day = 1 gram lost

**SHEAR BOND – ASTM C-882, Modified / mortar scrubbed into substrate**

## Slip Resistance Disclaimer:

**Notice:** The Occupational Safety and Health Administration (OSHA) and the American Disabilities Act (ADA) has set enforceable standards for slip-fall protection on walking surfaces. The ADA standards are the more stringent and require a minimum coefficient of friction (CoF) on level walking surfaces 0.6 and on ramped walking surfaces of 0.8. The system applicator/end user assumes all responsibility for providing a flooring system that meets all current safety standards. Neither Durável nor its selling agents will be responsible for any injury that may be incurred in a slip-fall accident. Furthermore, Durável recommends the use of slip-resistant aggregate in all coatings or floor systems that could possibly be exposed to wet conditions or become contaminated with oils, grease, or other lubricants.

# Technical Data Sheet

## Disposal:

Disposal of product and packaging should be in accordance with applicable regional, national and local laws and regulations.

## Shelf Life:

Generally one year from date of manufacture in original, unopened packaging stored at room temperature. Shelf life may be extended with reasonable care and protection during storage.

## Limitations:

This product is not intended for public use and is intended for use by qualified contractors and installers with proper experience and training in the use of these products, and that have read the complete safety data sheet. Apply product only when substrate and ambient temperatures are within the accepted range and to substrates that are a minimum of five degrees above dew point and will remain so during product cure. During application and cure protect product from all contaminants and traffic.

## Warranty:

### IMPORTANT!

Before using all Durável products, read and understand its accompanying Safety Data Sheet & Application Instructions for important safety information.

STANDARD TERMS AND CONDITIONS OF SALE, INCLUDING STANDARD WARRANTY APPLY - VISIT [Duravel.com](http://Duravel.com) FOR THE LATEST VERSION

## Disclaimer:

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated. It may not be valid for such material used in combination with any other materials or in any process unless specified in the text. Durável assumes no responsibility for injury to the vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the datasheet. Furthermore, Durável assumes no responsibility for injury caused by the abnormal use of this material, even if reasonable safety precautions are followed.

# Technical Data Sheet

## Safety Instructions:

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer by inhalation. Causes damage to lungs through prolonged or repeated exposure by inhalation. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash hands and exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, boots, protective clothing, and face protection.

## DANGER!

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.

**IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Prop65 Warning:** This product contains chemicals known to the state of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



**Always Review SDS & Technical Data Prior to Use**

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