

## PRODUCT DESCRIPTION

TrowelEase 1161-PK is a three-compound patching kit used for epoxy overlays, repairing spalled concrete, and resurfacing old or damaged concrete. TrowelEase 1161-PK uses a special blend of engineered quartz silica aggregate and two-component epoxy binder that provides a high-strength, easy to work with mortar.

## RECOMMENDED USES

TrowelEase 1161-PK is an epoxy-based mortar used to patch or overlay horizontal surfaces. Other uses include rebuilding joint nosings on warehouse floors, buildings, parking decks, etc.

## APPLICATION DATA SUMMARY

**MATERIAL CONDITIONING:** For best results, pre-condition materials to 65° - 85° F (19° - 30°C) before using.

## SURFACE PREPARATION

Surface must be clean and free of any dust, oil, grease, laitance, curing compounds, or any other contaminants. This should be achieved by acid etching with Muriatic Acid or by mechanical means such as sand-blasting, water blasting, or some other mechanical means. (A wire brush may be used for small repairs.) Use only oil free air to remove dust. All loose or unsound material must be removed. If patching, the outer perimeter of the spall should be saw cut or chipped to vertical or near vertical. When resurfacing, a primer such as BondTite 1101 should be used prior to installing TrowelEase 1161 Mortar. Any steel should be cleaned to white metal finish.

## SAFETY PRECAUTIONS

Read the Safety Data sheet carefully before use. Safety precautions in the SDS should be carefully followed during storage, handling and use. Improper use and handling can be hazardous to health and cause fire or explosion. For further information, please refer to our "Epoxy Resin Safety Handling Guide".

## EPOXY MORTAR PHYSICAL DATA

Mixed Ratio A:B:C	1:1:6 by volume
Volume Solids:	100%
Pot Life (3 ounces) 73°F:	35 minutes
Color:	Clear, straw
Shore Hardness:	7 Days

## LIMITATIONS

* Do not use solvents to thin.
* Minimum application temperature is 40°F (5°C).
* Minimum age of concrete must be 28 days.
* Do not alter mix ratio.
* Forms a vapor barrier after cure.

## APPLICATION INFORMATION

**Mixing Considerations:** Remove lid, locate and read Technical Data Sheet, Instructions and MSDS. Do not begin mixing until the area to be repaired is ready for the installation of the TrowelEase 1161 Epoxy Mortar.

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**Mixing Ratio:** The mix ratio is 1 part "A" to 1 part "B" to 6 parts "C" when measured by volume. Example: You can mix a small amount by using 1 cup of Binder Resin (Part A) with 1 Cup of Binder Hardener (Part B) with 6 cups of Aggregate Sand (Part C). As long as you use the same size cup to measure each component, the ratio will be close enough.

**Installing Material:** Put on gloves. Remove Binder (Part A and B) from aggregate blend and set aside. Carefully pour the aggregate from pail onto a piece of cardboard or heavy plastic.

**Mortar:** Binder Resin – Open and pre-mix Part "A" & "B." Combine components A and B into bucket provided. Mix for 3 minutes using the wooden stir sticks provided. A low speed drill (400-600 rpm) and jiffy type mixer can also be used. Scrape sides and bottom of pail during mixing. When mixing a complete kit, a low speed drill (400-600 rpm) and jiffy type mixer must be used. (Most people can mix up to ½ Gallon of mortar with a wooden paint stick. A drill should be used for quantities larger than that.) Slowly add aggregate (Part C) to resin little by little. Mix until no dry aggregate is seen. Continue adding aggregate and mixing in stages until you have used all the aggregate or have achieved your desired consistency. Mix for three to four minutes, checking to make sure there are no dry pockets of sand. (All the aggregate should be used for best yield.)

Place mortar into spall or area being repaired and smooth with trowel or screed. Strike off level. Do not over work the mortar.

## BENEFITS

* No V.O.C.'s—Solvent Free
* Complete Kit
* Excellent Bond Strength
* High Strength Mortar
* Quick Setting
* Very Durable Wear Surface
* USDA Compliant

## STORAGE

Storage should be in a dry environment at temperatures between 40° to 90°F (4° to 32°C). Ideally, storage temperature should be at 65° to 75°F (18° to 24°C.) Temperatures below 60°F (16°C) will cause epoxy to thicken making it difficult to properly blend the components. Under proper conditions, the shelf life is twelve (12) months in unopened, damage-free containers.

Protect from moisture. Do not allow to freeze.

## WARNING

Binder Resin "Part A" material may cause skin irritation. Contains epoxy resins. Some people may be allergic to epoxy resin. The Binder Hardener "Part B" material may cause severe burns on skin (Contains amines). Always use gloves when handling components. Some people are allergic to latex gloves and may develop a rash.

## FIRST AID

Skin Contact:	Wipe off the contaminated area and wash with soap and water.
Eye Contact:	Immediately flush eyes with large amounts of water for 10 minutes. Get medical attention.
Inhalation:	Move to fresh air if symptoms occur. If breathing is difficult, get medical attention.
Ingestion:	If conscious give two glasses of milk or water. Get medical attention.
* See MSDS for more information	

## SHIPPING DATA

Packaging:	Each kit includes: 5-Gallon mixing pail, 2 wooden mixing paddles to mix binder, Part A and B Epoxy binder, Part C aggregate, gloves, Technical Data Sheet with instructions, and MSDS.
DOT Class (resin) - Non regulated	
DOT Class (hardener) - Paint Related Material, 8, DOT Number UN 3066, III	

## SAFETY

For your safety, all required personal protection equipment should be used when operating machinery or handling chemicals. Concrete dust is a source of silica particles and other hazardous materials that can cause silicosis and other illnesses. Proper safety equipment and methods are the responsibility of the installation company, general contractor, and/or facility owner.

## WARRANTY

Wolverine Coatings Corporation warrants its products to be free from defects in material and workmanship. Wolverine Coatings Corporation's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Wolverine Coatings option, to either replacement of products not conforming to this Warranty or credit to the Buyer's account in the invoiced amount of the nonconforming products. Any claim under this warranty must be made by the Buyer to Wolverine Coatings in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the ship date, whichever is earlier. Buyer's failure to notify Wolverine Coatings of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

Wolverine Coatings makes no other warranties about the product. No other warranties, whether expressed, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply.

Any recommendation or suggestion relating to the use of the products made by Wolverine Coatings, whether in its technical literature, or in response to specific inquiry or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedure of use, or extrapolation of data may cause unsatisfactory results.

## LIMITATION OF LIABILITY

Wolverine Coatings Corporation's liability on any claims based upon Wolverine Coatings Corporation's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or parts thereof which give rise to the claim. In no event shall Wolverine Coatings Corporation be liable for consequential or incidental damages.

## LITERATURE REVISION - TDS: TrowelEase 1161 - PK - Rev. 220103

Published literature is subject to change without notice. Wolverine Coatings Corporation is constantly engaged in the testing of existing formulations, the development of new innovative technologies, and the evaluation of the latest practices. The latest literature should always be consulted at [www.wolverinecoatings.com](http://www.wolverinecoatings.com).



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