



# TRU PAC V

## Decorative Mortar Conversion Kit

**DESCRIPTION:** The Tru Impressions Tru-Pac V conversion kit is a multi-component admixture kit for converting standard 60 lb bag mortar mixes (type N\*) into a high performance, lightweight, environmentally sound decorative mortar material that may be stamped, carved and shaped into a variety of forms. Standard mortar combined with the Tru Pac will provide extended set times that allows for a variety of finish techniques common to the vertical concrete artist. **Tru Pac kit is not intended to be used alone.** With an adequate scratch coat, the converted mortar can be applied over existing concrete, drywall, plywood, cement board and cinder block. Each Tru-Pac kit is precisely measured for a consistent blend of lightweight aggregates and other proprietary materials which will allow non-sag build outs of up to 4 inches in strategic positions. With proper preparation, Tru-Pac converted mortar can also be used on overhead applications. The mix will dry and cure to a natural buff gray which provides added realism to your projects.

**COMPOSITION(Tru Pac):** Proprietary blend of lightweight aggregates, cement, set modifiers and natural non-shrink elements.

WORKING AND PERFORMANCE PROPERTIES @ 75° F (24° C) APPROXIMATE VALUES OF FULL 80lb MIX LOAD	
Density (Wet mix) per ASTM C 138:	85 lbs./cu.ft.
Working time:	40-60 minutes
Initial set per ASTM C-191 (Finishing time):	3-6 hours
Final set per ASTM C191:	12-16 hours
Coverage of combined kit.	Approx 9 square feet at 2 inches, 18 sq. ft at 1 inch thick, 36 sq ft at ½ inch.
Yield:	0.50 cubic feet per 20lb Tru Pac kit

### SURFACE PREPARATION:

**CONCRETE:** Make sure surface is thoroughly cleaned, especially any organic stains which may inhibit bonding. Any cracks and loose joints must be properly patched and filled to prevent shadowing and visible depressions from new mix.

**MASONRY:** Remove and repair any loose or weak mortar between masonry units. Clean as above.

**DRYWALL, BACKERBOARD, PLYWOOD:** Reinforce any joints between the boards, at the corners, and cover exposed screw or nail heads. Surfaces should be reinforced to prevent any flexing or movement. Mechanically fasten wire mesh/lath to drywall or plywood surfaces as needed prior to scratch coat.

**PRIMING:** All substrates should be primed with proper primer such as TI Flexy-Bo using a roller or brush at approximately 300 sq. ft./ gallon. Do not apply the bonder to wet surfaces. Allow the primer to dry to a "slight tack" consistency, which is typically 20-30 minutes, before starting the scratch coat/vertical application. Overly absorbent substrates may require a second coat of primer to ensure an adequate seal. Do not expose the freshly primed surface to rain or water contamination, in which case the primer would have to be reapplied due to possible run off.

**SCRATCH COAT:** When the primer is ready, a thin scratch coat of simple mortar should be applied by trowel or hopper gun at approx. 1/16 to 1/8 inch thick. This scratch coat should be raked horizontally to create adequate surface profile which will greatly enhance the bonding ability of the decorative top coat. Allow the scratch coat to dry 6-8 hours. Always dampen scratch coat by misting at the onset of applying Tru Pac mortar. Keep water handy to rewet scratch if outdoors and dry conditions.

**MIXING:** In a mixing tub of 15 gallon or larger, place approx. 2 gallons (8 quarts) of water in the mixing container, and setting aside an additional 3 qts of water for secondary addition. Add the contents of the 20 lb Tru Pac kit. Mix slowly with a sturdy paddle type mixer and begin slowly adding in the 60lb bag of mortar. Add in the remaining 2-3 qts of water that was set aside to reach desired consistency, continuing to mix for two minutes at low speed, taking care to scrape the sides of the container as you go. **NOTE. User may have individual preference on the mix consistency and water content.** User may adjust water to the desired consistency of the mortar, but do not exceed 3 gallon (12 quarts) per 80 lb. combined mix. Do not add previously mixed material to new batches, and do not re-temper or add additional water to previously mixed material to gain plasticity. Tru Pac is based on common Type N mortar. Using Type S may affect the rheology

and speed of the mix, thus affecting the final product. Always run a test batch when deviating from the standard instructions.

**APPLICATION:** The Tru Pac converted mortar is usually applied by handfuls and/or hawk and trowel ¼ to 2 inch thickness. Coverage rates will vary depending on depth of installation, substrate texture, and finishing. If applying in successive lifts, allow preceding lift to stiffen (but not harden) before applying fresh material. Application thickness should be sufficient to allow for the accurate transfer detail if using a concrete stamp. Begin stamping as soon as the material has sufficiently set to achieve a clean impression without tearing the surface, usually within the first 15-30 minutes with proper use of release agent, either liquid or powder. The mortar can be carved/shaped between 2-24 hours after application. Degree of carving will vary depending on temperature, humidity, and thickness.

**APPLICATION OUTDOORS:** As designed with the major component being common mortar, The mix is suited for outdoor use but in geographic areas of heavy freeze/thaw cycles, it is recommended to replace 1.5 pints of water with 1.5 pints of Flexy-Bo bonder. All finished projects should be sealed with the proper type sealer to achieve the desired finish and protect from nature including U.V.

**CURING:** Normal curing of The Tru Pac mortar mix is not necessary due to its extended set time(hydration), though extreme conditions may require the recommended use of moisture retention such as sheeting. Any control joints should be completed approx. 24 after installation

**CAUTIONS:** Do not apply if the temperature is expected to fall below 40° F (4° C) or rise above 90° F (32.2° C) within 24 hours of application. Maximum application thickness recommendation in one lift is 2". If mix sags or fails at any point during application, completely remove the effected material, clean the scratch coat to remove mortar residue, and re-apply the mortar at a reduced thickness. Do not overwork the completed surface. Minimum application thickness is usually 1/4 inch (6mm).

**WARNINGS:** Contains cement and silica, avoid inhalation of dust. Wear gloves, safety goggles, and NIOSH/MSHA approved dust respirator during mixing and placement. Use only with adequate ventilation. Refer to product M.S.D.S. (Material Safety Data Sheet) for additional safety information. Do not take internally. Avoid prolonged contact with skin. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. If inhalation or exposure causes any physical discomfort or irritation that persists, SEEK MEDICAL ATTENTION.

**NPCS HMIS SAFETY RATINGS:** HEALTH = 2, FLAMMABILITY = 0, REACTIVITY = 0, P. PROTECTION = E

**PACKAGING:** 20 lb. bag , 80 bags / pallet

**STORAGE:** 40° to 90° F. Store in a dry place.

**SHELF LIFE:** 1 year properly stored

**FREIGHT CLASS:** Item 42130, Sub O, LTL 50

**LIMITED WARRANTY:** This product is warranted to be of merchantable quality when used according to the instruction herein. It is not warranted to be suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of the product as purchased, if found to be defective upon inspection by the manufacturer. This limited warranty is issued and accepted in lieu of all other expressed warranties and explicitly excludes liability for consequential damages. Buyer assumes all risk and liability resulting from the use of this product. Revised – 07-09

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**NOTE:** Tru Pac has been tested with the most common 60 lb bag type N mortars found. Walttools does not promote any specific brand, nor guarantee Tru Pac mix will work with every type of mortar available to the same specifications. A full batch test should always be performed before using a particular combination for a project.