



Panel Putty

Cementitious Smoothing and Resurfacing Coating

DESCRIPTION

Panel Putty is a blend of portland cement, fine aggregates and proprietary admixtures designed to provide a smooth, textured patching material for thin surface repairs, coating and restoration application. **Panel Putty** exhibits superior workability by maintaining a creamy consistency for easy troweling, rubbing or spreading. **Panel Putty** has excellent bond strength to the substrate and contains no gypsum.

USES

- Resurfacing, rubbing and finishing of precast and tilt-up concrete products
- Cementitious rub for defective concrete formwork
- Refinish old, vertical, concrete surfaces
- Bridge beams, wing walls, abutments, columns and structural surface repair
- Fill in pits, voids and defects in concrete, masonry, plaster, sheetrock or wood
- Can be applied in applications from feather edge to 1/8" thickness

BENEFITS

- Durable: Contains no gypsum
- Color: Consistent color match for concrete
- Resistant: Withstands freeze/thaw cycles
- Resistant: Withstands wearing
- Adhesion: Polymer modified for increased adhesion enabling paints and coatings to bond easily
- Smooth: Maintains moisture for easy finishing
- Non-corrosive and non-metallic
- Consistent: Strict Quality Control testing and standards

SURFACE PREPARATION

All surfaces in contact with **Panel Putty** shall be free of dirt, oil, grease, laitance and other contaminants that may act as bondbreakers. All unsound concrete should be removed to ensure a good bond. Smooth, dense surfaces may need to be mechanically abraded to provide necessary bonding requirements. Moisten area prior to application. Always apply a test patch. Maintain contact areas between 45°F (7°C) and 90°F (32°C) prior to repair and during initial curing period.

MIXING

For best results, use a mechanical mixer with rotating blades. Pre-wet mixer and empty excess water. Place 6 quarts of cool, clean potable water per 50 lb bag in mixer, then add dry material. Mix on low RPM for a total of 3 to 5 minutes to achieve desired consistency. Mix only enough material that can be placed within working time. To enhance physical properties, add as much as 3 quarts of **US SPEC Dura-25** in place of 3 quarts of mixing water. Do not blend excess water as this will cause bleeding and segregation. Do not use any other admixtures or additives.

PHYSICAL PROPERTIES

Compressive Strength (ASTM C-109*)

SET	1 DAY	3 DAYS	7 DAYS	28 DAYS
A NORMAL	800 psi (5.51 MPa)	3,300 psi (22.74 MPa)	4,500 psi (31.01 MPa)	5,100 psi (35.14 MPa)

Rate of Set (ASTM C-266*)

SET	INITIAL	FINAL
A NORMAL	1:30	7:00

Length Change (ASTM C-157*)

AGE	% LENGTH CHANGE
28 DAYS AIR	-0.10
28 DAYS WATER	+0.01

Bond Strength (ASTM C-882*)

AGE	APPLIED LOAD	SHEAR BOND STRENGTH
7 DAYS	24,700	1,500 psi (10.34 MPa)

(100% of rupture occurred in dummy section)

*Notes: 73°F (22.8°C) 55% humidity
A = 5.0 qts

COVERAGE

One 50 lb (22.7 kg) bag will cover approximately 50 ft² at 1/16" thickness. Coverage may vary depending on porosity of surface.

Packaging: 50 lb (22.7 kg) bag, 63 bags per pallet



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PLACING

Panel Putty can be installed with a putty knife, trowel or sponge float. Place material consistently, without multiple layers. Avoid any air entrapment. For areas greater than 1/8" in depth, apply **US SPEC Quickset 20** to within 1/8" of final repair. Apply a finish coat of **Panel Putty** with a trowel or sponge float over entire area until even. If needed, apply a second coat before the first coat sets. Install one consistent application for best color match. Material performs best when applied at cool periods in the day.

FINISHING & CURING

Follow standard ACI curing practices. Exposed surfaces should be cured with a membrane forming curing compound such as **US SPEC Maxcure Resin Clear, Hydrasheen 15%** or **Hydrasheen 30%**.

STORAGE

Normal cement storage and handling practices should be observed. Store material in an interior, cool, dry place. Shelf life is one year in original, unopened container.

LIMITATIONS

In addition to limitations already mentioned, please note the following. Do not apply when temperature is below 40°F (4°C) or when the temperature is expected to fall below 40°F within 48 hours. Do not apply over surfaces that are frozen or contain frost. Do not apply over any active faults or cracks in the substrate without addressing any movement that may occur. Allow concrete to fully cure for 28 days before use of this product. This material is not intended for use as a horizontal wearing surface. Normal conditions working time is 15 minutes. Setting time will speed up in hot weather and slow in cold weather. For hot and cold weather applications, contact your US SPEC manufacturer's representative.

REGULATORY

Read and follow application information, precautions and Material Safety Data Information.

Right-to-know

This product contains Portland Cement (CAS#65997-15-1) and Crystalline Silica (CAS# 14808-60-7)

HMIS

Health 1, Fire 0, Reactivity 0

Prop 65

Warning! This product contains Crystalline Silica, a chemical known to the State of California to cause cancer or reproductive toxicity.

VOC Content

0 g/L

CAUTION

EYE AND SKIN IRRITANT

Contains Portland Cement (CAS# 65997-15-1) and Crystalline Silica (CAS# 14808-60-7). Do not allow contact with eyes or skin. Avoid breathing dust - silica may cause serious lung problems. There is limited evidence silica is a carcinogen. The use of gloves, goggles, dust masks and other protective clothing is recommended. If cement or sand particles get into eyes, rinse immediately with clean water and seek prompt medical attention.

TECHNICAL SERVICE

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NOTICE OF LIMITED WARRANTY US MIX Co. (manufacturer) warrants to buyer that this product at the time and place of shipment is of good quality and conforms to the manufacturer's specifications in force on the date of manufacture when used in accordance with the instructions hereon. Manufacturer cannot warrant or guarantee any particular method of use, application or performance of the product under any particular condition. This limited warranty cannot be extended or amended by manufacturer's sales people, distributors or representatives or by any sales information, specifications of anyone other than the manufacturer. Liability under this warranty is expressly limited to refund of the purchase price.

LIMITATION OF WARRANTIES AND LIABILITY Buyer assumes all risks associated with the use of this product. Manufacturer expressly disclaims all warranties expressed or implied including the warranties of merchantability and fitness for a particular purpose and all other warranties otherwise arising by operation of the law, course of dealing, custom, trade or otherwise. Buyer's exclusive remedy if this product is proven to be defective is limited to refund of purchase price by the manufacturer. Refund shall only be available if the buyer notifies manufacturer in writing within thirty days following discovery of any defect. Written notice shall be forwarded to US MIX Co. at 112 South Santa Fe Drive, Denver, Colorado 80223. No claim can be made twelve months after purchase of the product. Twelve months after the purchase manufacturer's duties with respect to the product and limited warranty shall be presumed to have been satisfied. Manufacturer in no event is liable for consequential damages.

Yield: 50 lbs (22.7 kg) will fill approximately 0.43 ft³ (0.012 m³) when 5.0 qts mixing water is used.