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Patcher 1776

Two-Component, Polymer-Modified Repair Mortar

DESCRIPTION

Patcher 1776 is a two-component, polymer-modified, portland cement mortar. **Patcher 1776** is a fast setting patching material for surface repairs from feather edge to 1" neat and up to 4" extended, in both interior and exterior applications. **Patcher 1776** exhibits superior workability by maintaining a smooth, creamy consistency for easy troweling. **Patcher 1776** has been specifically formulated to provide excellent workability through a range of consistencies. This versatility from putty consistency to more fluid allows for a wide range of concrete repairs from basic patching to topping and resurfacing.

USES

Patcher 1776 is ideal for a wide variety of horizontal, vertical and overhead concrete surface repairs:

- Surfaces subject to severe freeze/thaw cycles
- Refinish old concrete and masonry surfaces
- Parking garages, ramps, warehouses, loading docks and all structural surface repair
- Fill in pits, voids and defects in concrete and masonry
- Vertical/overhead repairs when mixed to a stiffer consistency

BENEFITS

- Thermal expansion similar to concrete
- Open to foot traffic in 4 hours and pneumatic tire in 12 hours
- Color: Consistent color match for concrete
- High bond, compressive strengths
- Interior and exterior applications
- Non-Corrosive: Will not rust
- Consistent: Strict Quality Control testing and standards

SURFACE PREPARATION

All surfaces in contact with **Patcher 1776** 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 need to be mechanically abraded to provide necessary bonding requirements. Mechanically prepare the substrate to a minimum CSP 5 following ICRI Guideline 310.2R to allow proper bonding. ACI recommends the area to be patched should be saturated for 24 hours before placement. Remove any standing water. Surface should be saturated, surface dry (SSD). Scrub some of the mixed components into the prepared surface. Do not allow scrub coat to fully dry before placement.

For best results on extremely porous or absorbent concrete, **RWB Bonding Agent OTR** may be used as a bonding agent. Apply with a low pressure sprayer, brush or roller at a rate of 300 ft²/gal (27.9 m²/3.8 L) when diluted 1:1 with cool, clean potable water. A hand held pump sprayer or an airless industrial sprayer is acceptable. Apply evenly without puddling. Allow **RWB Bonding Agent OTR** to fully dry prior to placing patch. Always apply a test patch. Maintain contact areas between 40°F (4°C) and 90°F (32°C) prior to repair and during initial curing period.

APPLICATION THICKNESS

Featheredge - 1", Up to 4" Extended

COVERAGE/YIELD

50 lbs (22.7 kg) will fill approximately 0.43 ft³ (0.012 m³) when mixed with 4.0 quarts of **RWB Bonding Agent & Admix**.

MIXING

For best results, use a mechanical mixer with rotating blades or use a heavy duty 1/2" (15 mm) (or larger) low-speed, corded drill and mixing paddle #6 per ICRI Technical Guideline 320.5R. Pre-wet mixer and empty excess water. Place 3/4 of the maximum 4.0 quarts of **RWB Bonding Agent & Admix** in mixer, then add dry material. A stiffer to non-sag mix is achieved by using less **RWB Bonding Agent & Admix**. Mix on low RPM for a total of 3 to 5 minutes, adding the remaining **RWB Bonding Agent & Admix** until a homogeneous mixture is achieved. Mix only enough material that can be placed within working time. For placements greater than 1" depth, **Patcher 1776** must be extended 30% by weight of powder, with clean, washed and dried 3/8" (1 cm) pea gravel. Do not blend excess water as this will cause bleeding and segregation. Do not use any other admixtures or additives.

PLACING

Patcher 1776 should be placed upon completion of mixing. Place material consistently, avoiding any air entrapment. Trowel material onto the surface to be repaired, ensuring that all pores and voids are filled. Force material against edge of repair, working away from center. After leveling, the patch can be troweled, brushed or broomed to the desired finish. When material has reached the proper set, it can be shaved, shaped or molded with a steel trowel. Multiple lifts can be applied. Each lift should be between 1/8" and 1" thick. Profile or roughen each lift to ensure a good bond. Screed or float to finished elevation.

FINISHING & CURING

In rapid curing situations such as high heat, UV exposure and wind, best results will be obtained by covering **Patcher 1776** with plastic, wet rags or burlap for 48 hours.

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. Protect **Patcher 1776** from moisture intrusion for the first 24 hours after application. Do not apply when the surface or ambient temperature is below 40°F (4°C) or expected to fall below 40°F (4°C) 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 the use of this product. Setting time will speed up in hot weather and slow in cold weather. For hot and cold weather applications, contact your Janell representative.

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



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PHYSICAL PROPERTIES

All Physical Property testing performed in laboratory conditions of 73.5 ± 3.5°F (23 ± 2°C) and a relative humidity no less than 50% unless otherwise determined by the test method or specification. All results represent Patcher 1776 with 4.0 quarts of RWB Bonding Agent & Admix unless listed otherwise. Tests are conducted under standardized conditions for comparative purposes, and results may not be representative of performance under field conditions.

Table with 4 columns: Property and Test Method, 1 Day, 7 Days, 28 Days. Rows include Compressive Strength, Rate of Set, Flexural Strength, Density, Length Change, Modulus of Elasticity, Freeze/Thaw Resistance, Scaling Resistance, Bond Strength, Flow, and Coefficient of Thermal Expansion.

DANGER

This product contains Crystalline Silica (CAS# 14808-60-7) and Portland Cement (CAS# 65997-15-1). Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust. Keep away from children. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations.

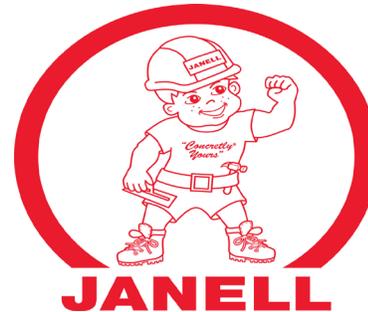
WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

FIRST AID

If swallowed: Immediately call a poison center/doctor. Rinse mouth. 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/doctor. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

MANUFACTURER/TECHNICAL SERVICE

Exclusively manufactured for Janell Inc. by US SPEC of Denver, CO. Contact your Janell representative for the most current product information. Always read and follow the warnings and instructions on the most current technical data sheets.



Cincinnati, OH: 513-489-9111 Dayton, OH: 937-866-9111
Norwood, OH: 513-651-9111 Columbus, OH: 614-224-9111
Erlanger, KY: 859-341-9111 Lexington, KY: 859-254-9111

LIMITED WARRANTY: The manufacturer warrants that this product is free from defects in material and workmanship, and will perform per the manufacturer product literature in effect at the time of purchase. This warranty is for one (1) year from the date of purchase. Any implied warranty of merchantability or fitness for a particular purpose is limited to the duration of this express warranty. This warranty applies only if the product is used, in strict accord with the manufacturer published instructions. The sole and exclusive remedy under this warranty is replacement of the defective product or refund of the purchase price, at the manufacturer's option. CONSEQUENTIAL, SPECIAL, AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY. All claims under this warranty must be submitted to the manufacturer by calling 303-778-7227. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.