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321 Old School Mix *Cementitious Resurfacing Coating*

DESCRIPTION

321 Old School Mix is a blend of portland cement, dry polymers and proprietary aggregates designed to provide a textured patching material for thin surface repairs, coating and restoration applications. **321 Old School Mix** exhibits superior workability by maintaining a smooth, creamy consistency for easy troweling, rubbing or spreading. **321 Old School Mix** contains no gypsum.

USES

321 Old School Mix is ideal for a wide variety of concrete repairs:

- 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 wearing
- Adhesion: Polymer modified for increased adhesion so paints and coatings 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 **321 Old School Mix** 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. Mechanically prepare the substrate to a minimum CSP 2 following ICRI Guideline 310.2R to allow proper bonding. Moisten area prior to application. Always apply a test area prior to application. Maintain contact areas between 40°F (4°C) and 90°F (32°C) prior to repair and during initial curing period.

APPLICATION THICKNESS

Featheredge - 1/8"

YIELD

50 lbs (22.7 kg) will fill approximately 0.43 ft³ (0.012 m³) when 7.0 quarts mixing water is used.

COVERAGE

One 50 lb (22.7 kg) bag will cover approximately 45–50 ft² at 1/8" thickness. Coverage may vary depending on porosity of surface.

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 6.0–7.0 quarts of cool, clean potable water per 50 lb (22.7 kg) bag in mixer, then add dry material. Mix on low RPM for a total of 3 to 5 minutes until a homogeneous mixture is achieved. Mix only enough material that can be placed within working time. Do not blend excess water as this will cause bleeding and segregation. Do not use any other admixtures or additives.

PLACING

321 Old School Mix 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 **RWB Swiftset** to within 1/8" of final repair. Apply a finish coat of **321 Old School Mix** with a trowel or sponge float over entire area until even. If needed, apply a second coat before the first coat sets. Install in one consistent application for best color match. Material performs best when applied at cool periods in the day. Do not add water to already applied material. Introducing water to already applied material will result in discoloration.

FINISHING & CURING

Follow standard ACI curing practices. Exposed surfaces should be cured with a membrane forming cure and seal compound.

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 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. This material is not intended for use as a horizontal wearing surface. Protect newly applied material from moisture intrusion for a minimum of 8 hours. Setting time will speed up in hot weather and slow in cold weather. For hot and cold weather applications, contact your Janell Representative.



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PHYSICAL PROPERTIES

All Physical Property testing performed in laboratory conditions of $73.5 \pm 3.5^{\circ}\text{F}$ ($23 \pm 2^{\circ}\text{C}$) and a relative humidity no less than 50% unless otherwise determined by the test method or specification. All results represent **321 Old School Mix** with 7.0 quarts water unless listed otherwise. Tests are conducted under standardized conditions for comparative purposes, and results may not be representative of performance under field conditions.

Property and Test Method	Results			
Compressive Strength ASTM C109	1 Day 1,100 psi (7.58 MPa)	3 Days 2,000 psi (13.78 MPa)	7 Days 2,800 psi (19.30 MPa)	28 Days 4,000 psi (27.57 MPa)
Rate of Set ASTM C266	Working Time 1:30	Initial 3:00	Final 5:00	
Flexural Strength ASTM C348	7 Days 700 psi (4.82 MPa)		28 Days 1,000 psi (6.89 MPa)	
Density ASTM C138	117 lb/ft³ (1,874 kg/m³)			
Length Change ASTM C157	28 Day Air (-)0.04%		28 Day Water (+)0.04%	
Modulus of Elasticity ASTM C469	1.94 x 10 ⁶ @ 28 days (13.37 GPa)			
Flow ASTM C1437	Time 15 minutes		Flow 47%	
Coefficient of Thermal Expansion CRD C39	6.9 x 10 ⁻⁶ in/in°F (12.42 x 10 ⁻⁶ cm/cm°C)			

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

Norwood, OH: 513-651-9111

Erlanger, KY: 859-341-9111

Dayton, OH: 937-866-9111

Columbus, OH: 614-224-9111

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.