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DESCRIPTION

Strongcrete LST is a structural concrete repair mortar that exhibits excellent flexural, shear bond and compressive strengths. Strongcrete LST is a blend of Portland cement, selected aggregates and proprietary admixtures. Strongcrete LST offers superior resistance to freeze/thaw conditions, deicing salts, petroleum products and other chemicals prevalent on concrete roadways. Strongcrete LST is ideal for formed applications requiring extended working time, high fluidity and high early strength development.

USES

Strongcrete LST is ideal for a wide variety of concrete repairs:

- Highways
- Bridge decks
- Pavements
- Airport runways
- Warehouse floors
- Industrial plants
- Vertical form and cast-in-place flatwork

BENEFITS

- Resilient: Withstands freeze/thaw cycles and corrosive elements
- Workability: Extended working time, excellent flow
- Performance: Excellent high early compressive, bond and flexural strengths
- Consistent: Strict Quality Control testing and standards

STANDARDS

Strongcrete LST meets and exceeds the requirements of ASTM C928 R2.

SURFACE PREPARATION

All surfaces in contact with **Strongcrete LST** 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. Saw cut the perimeter of the area being patched into a square with a minimum depth of 1/2". 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). For best results, scrub some of the mixed components into the prepared surface. Do not allow scrub coat to fully dry before placement. 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.

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 320.5. Pre-wet mixer and empty excess water. Place 4.0 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. For placements greater than 3" depth, **Strongcrete LST** must be extended 30% by

MIXING (continued)

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

Strongcrete LST should be placed upon completion of mixing. Place material consistently, avoiding any air entrapment. Pour material into prepared sawcut area, ensuring that all pores and voids are filled. Force material against edge of repair, working away from center. Screed or float to the level of the surrounding concrete, then trowel, brush or broom to the desired finish.

FINISHING & CURING

Follow standard ACI curing practices. Exposed surfaces should be cured with a membrane forming 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 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 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.



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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 Strongcrete LST with 4.0 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

Progresentative of perio						
Property and Test Method	Results					
Compressive Strength ASTM C109	3 Hours 3,000 psi (20.68 MPa)	1 Day 4,000 ps (27.57 MF		psi	28 Days 6,000 psi (41.36 MPa)	
Rate of Set ASTM C266	Working T :45	ime I	nitial 1:20		Final 1:45	
Flexural Strength ASTM C78	1,00	Days 28 D 00 psi 1,500 MPa 10.34		0 psi		
Length Change ASTM C157	28 Days Air (-)0.06%		28	28 Days Water (+)0.08%		
Modulus of Elasticity ASTM C469	3.45 x 10 ⁶ @ 28 days (23.69 GPa)					
Freeze/Thaw Resistance ASTM C666	F/T Cycles 300		Ε	Durability 106%		
Scaling Resistance ASTM C672	Age 25 cycles	Scaled N .009 k		Vis	ual Rating 0	
Bond Strength ASTM C882	1 Day 2,000 psi (13.78 MPa)		7 Days 2,500 psi (17.23 MPa)			
Flow ASTM C1437	144%					
Coefficient of Thermal Expansion CRD C39	3.5 x 10 ⁻⁶ in/in°F (6.5 x 10 ⁻⁶ cm/cm°C)					
Corrosion Resistivity	Strongcrete LST tested compatible with Vector™ Corrosion Technologies Galvashield® embedded galvanic anodes.					

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 wellventilated area. Do not breathe dust.



MARNING: 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

MANUFACTURER/TECHNICAL SERVICE

Exclusively manufactured for Janell Inc. by US SPEC of Denver,

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

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. See product packaging for complete limitation of warranties and liability.