

TD.431 – TECHNICAL DATA: TEXTURE-PAVE™ Pre-Mixed Overlay

Revised: 11/7/2023 Version: 1.7

Product Class: Dry, redispersible, polymer modified, cement-based mortar/slurry

Description: TEXTURE-PAVE™ Pre-Mixed Overlay is an extremely versatile, high strength, cementitious resurfacing material engineered for overlaying, concrete surface restoration, repair and regrading, and creating textured decorative finishes on stable concrete surfaces. Typical applications include interior or exterior commercial, industrial, and residential concrete surfaces for renovation or new construction.

TEXTURE-PAVE™ is a pre-packaged, “just add water”, overlay material consisting of a proprietary hybrid redispersible polymer blend, graded quartz aggregates, and white cement to create a polymer cement overlay material that cures to create a hard, abrasion resistant wear surface that will not re-emulsify when exposed to excessive amounts of water.

TEXTURE-PAVE™ offers many advantages over other overlay materials including better abrasion resistance, higher levels of strength and durability, excellent weather resistance such as resistance to moisture, UV, and freeze/thaw cycles and is available in a wide variety of colors and color combinations. It can effectively be applied from 3/16” / 4.7 mm or greater with a cured compressive strength exceeding 4,500 psi (31 MPa) after 28 days, allowing heavy commercial traffic without wear or damage.

TEXTURE-PAVE™ is designed to be easy to mix and install while being cost effective. It is designed to give a longer work time compared to most other materials to ensure proper finishing and attention to detail.

TEXTURE-PAVE™ can be applied by trowel or gauge rake and can be layered to create additional thickness when needed. Additional benefits as compared to concrete include increased flexural strength which decreases the brittleness of the surface and increased resistance to moisture, for above or below grade applications.

Typical Uses:

- For resurfacing and regrading of concrete substrates and surface repairs greater than 1/4” / 6mm.
- For creating thin architectural/decorative overlays and interior/exterior thin stamped overlays.

Key Features:

- Better overall performance than most other modifiers and polymers including acrylic, polyvinyl acetate, VAE, styrene, and silicone.
- Provides a permanent bond (with correct substrate preparation on stable concrete surfaces).
- High levels of moisture resistance, with high levels of flexural and tensile strengths.
- Increased texturing capabilities with unlimited finish options.
- Long pot life.
- Can be colored integrally with PORTION CONTROL COLORANT™ (PCC) or SYNTHETIC PRIMARY PIGMENT™ (SYPP).
- Can be colored/stained topically with ULTRA-STONE™ Antiquing Stain, CHEM-STONE™ Reactive Stain or HYDRA-STONE™ Dye Stain.
- Resistant to weather, including UV degradation, moisture deterioration, and freeze-thaw cycles.

Product Properties:

- Color: White portland type II
- Pot Life: Varies based on ambient conditions.

Standard Cure @ 70° F / 21° C

- Foot traffic: Varies on application and climate, minimum 24 hours
- Heavy traffic: Due to its versatility and wide range of application, this will vary, minimum 72 hours.
- Vehicular traffic: 7 days
- Consistency: Slurry/Mortar

Coverage:

- Under normal conditions TEXTURE-PAVE™ 55 Lb. / 25 kg bag will cover 24.5 sq. ft. at a depth of 1/4" (6mm).
- Note: Coverage will vary depending on depth of fill or variation, surface texture or profile, preparation procedures used, desired surface finish, and other conditions.

Physical Properties

@ 77° F / 24° C, 50% R.H.

Appearance		White fine powder
Weight (lbs.) per stock container		55 lbs.
Compressive strength	ASTM D695	
1-day		1425 psi
7 days		3655 psi
28 days		4565 psi
Tensile strength	ASTM D638	
7 days		375 psi
28 days		700 psi
Flexural strength	ASTM D790	
7 days		875 psi
28 days		1415 psi
Abrasion loss		
28 days		0.19%
Density		
7 days		1.19 g/cm3
28 days		1.95 g/cm3
Shear bond		
7 days		320 psi
28 days		595 psi
Cohesive		
7 days		58 psi
28 days		103 psi
Impact Resistance		
7 days		19 in/lbs.
28 days		29 in/lbs.
Slant shear	ASTM C882	100% concrete failure
Reaction to fire	EN 13501-1:2018	B _{FL} – s1
Application temperature		40° F / 4° C to 100° F / 38° C
Cured @ 70° F / 21° C		
70%		7 days
100%		28 days

Limitations:

- The use of partial bags is not recommended. Some components may settle during shipping. Use the entire contents of the bag for consistency.
- TEXTURE-PAVE™ requires the use of THIN-FINISH™ as a base/skim coat and as a bond coat for proper application.
- TEXTURE-PAVE™ is engineered and designed for structurally sound, stable concrete surfaces. Not all concrete surfaces are suitable for the installation. Those surfaces which are not suitable include; concrete that has not cured for at least 28 days, concrete with severe vapor emission problems, surfaces which are gypsum based and lightweight concrete. TEXTURE-PAVE™ surfaces are not intended for use in areas subject to metal wheels, track or rollers without approved protective sealer/coating.
- TEXTURE-PAVE™ is not intended for use in areas subject to constant water immersion or water leaks. If installation is desired in areas of harsh chemicals and/or testing, a special protective coating may be required.
- TEXTURE-PAVE™ is not intended for use as a crack repair product. Existing cracks must be repaired and all existing expansion joints must be honored.
- All concrete surfaces must be properly cleaned and prepared. Failure to remove contaminants or existing coating may result in loss of adhesion, delamination, and product failure.
- Recommended application temperature for TEXTURE-PAVE™ is between 40°F and 90°F / 4.4°C and 32.°C. If the temperature is forecast to drop below freezing within 24 hours after the application do not proceed.

Cautions, Clean Up, and First Aid:

- **WARNING! IRRITATING TO EYES AND SKIN. DO NOT BREATHE DUST. MAY CAUSE DELAYED LUNG INJURY (SILICOSIS). CONTAINS CEMENT AND SILICA (QUARTZ).** Use with adequate ventilation. Wet cement may cause alkali burns. Dust mask (NIOSH/MSHA TC 21C approved), safety goggles and protective gloves are recommended.
- **FIRST AID:** Eyes – **DO NOT RUB EYES.** Immediately flush thoroughly with plenty of clean water. Skin – Wash thoroughly with soap and water. Inhalation – Move to fresh air. If symptoms persist or develop, or if ingested, seek immediate medical attention. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.** Before using or handling, read the Material Safety Data Sheet and Warranty.

Jobsite Suitability:

- TEXTURE-PAVE™ is a professional grade product and requires training. Incorrect preparation and application can affect the long-term performance of the overlay.

Surface Preparation:

- Prior to the application of TEXTURE-PAVE™, it is mandatory to apply THIN-FINISH™.
- Refer to TD.432 – TECHNICAL DATA: THIN-FINISH™ Pre-Mixed Overlay for further surface preparation information.
- Contact a Technical Representative for specific details.

Mixing:

- The volume of water added to the mix must be accurately measured.
- For applying a thin stamped overlay at 1/4" add 3.75 to 4 quarts of clean cool water per 55 LB. bag of TEXTURE-PAVE™.
- For thicker or deeper applications, call an Authorized Distributor. In most cases, TEXTURE-PAVE™ must be applied to THIN-FINISH™ as a base and bond coat.
- Add water to the mixing container first, followed by the TEXTURE-PAVE™ material. If the overlay material is added to the water, clumps may form in the mix and performance will be sacrificed
- Mix the material for 2 full minutes for consistent blending, allow to "false set" for 5 minutes and re-mix. It may become necessary to add a very small amount of water when re-mixing after the "false set". Please note that this is a critical step to the mixing process. Failure to strictly comply with these mixing instructions may result in loss of abrasion and water resistance as well as a loss of adhesion.
- If integral color is desired, add the PORTION CONTROL COLORANT™ or SYPP™ to the water before adding the TEXTURE-PAVE™ material to the mixing container.

Installation:

- The surface area should be divided into smaller work sections using walls or expansion joint lines depending on the amount of overlay experience the installer has.
- As with most cementitious products, existing cracks or joints in the substrate will reflect through the overlay. Joints must be reproduced and cracks must be repaired as best possible during the application process. Any delay in the reproducing of the joints may result in a loss of adhesion along the joint, crack, expanse or edge.
- See Product Information Quick Notes for Thin Stamped Overlay using TEXTURE-PAVE™.

Detailing:

- Once the TEXTURE-PAVE™ is just firm enough to take light foot traffic the imperfections along the joints and edges should be detailed and touched up.
- TEXTURE-PAVE™ gains strength similar to concrete. The surface can be opened to traffic when it reaches sufficient strength not to be damaged, a minimum of 12 hours for light traffic. A minimum of 5 to 7 days for normal traffic. A 7 to 10 day cure is required before opening to heavy foot traffic or vehicular traffic. Protect the curing surface from other construction trades.

Staining:

- Natural coloring variations are achieved with ULTRA-STONE™ Antiquing Stain or CHEM-STONE™ Reactive Stain.

Sealing:

- TEXTURE-PAVE™ must be sealed or coated for ease of maintenance and to protect the surface, using materials that have demonstrated compatibility. Additional information is available in the document: Technical Data TD.414 - Protective Sealer and Coating Options.
- All sealed surfaces should be inspected to verify and approve installation and safety, including wet and dry slip resistance prior to opening the area to traffic.

Available Packaging:

- TEXTURE-PAVE™ is available from stock in 55 Lb. / 25 kg bags. 56 bags per full pallet.

Suggested Storage:

- Must remain dry. Store in a temperature and weather-controlled area between 65° F / 18° C and 85° F / 29° C.
- Do not allow to freeze.
- Shelf Life: 1 year from date of manufacture.