

PI.301 – PRODUCT INFORMATION: TEXTURE-PAVE™ Pre-Mixed Overlay

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DESCRIPTION

TEXTURE-PAVE™ Pre-Mixed Overlay is a high strength, polymer modified, cementitious topping material formulated and engineered for resurfacing, overlaying and texturing structurally stable concrete floors and surfaces.

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, permanent wear surface.

TEXTURE-PAVE™ is designed to create durable finishes for producing stamp textured finishes, concrete patching, resurfacing, overlaying, reducing surface defects and texturing stable concrete surfaces. Typical applications include interior or exterior commercial, industrial and residential concrete surfaces for renovation or new construction.

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” to 5/8” / 4.7 mm to 15.88 mm thick 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 extremely easy to mix and install while proving very economical and cost effective. Once the surface has been properly cleaned and prepared, simply add the material to the recommended water volume, mix well and apply. It is designed to give a longer workability 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 effectively 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.

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.

APPLICATION STANDARDS

Professional standards and practices, including those published by the American Concrete Institute (ACI), the Portland Cement Association (PCA), and the International Concrete Repair Institute should be understood and followed.

TECHNICAL DATA

Compressive, flexural and tensile strengths as well as other performance test data concerning TEXTURE-PAVE™ are listed in the table below. All properties are typical of those obtained when professionally tested by standard ASTM testing methods.

| | PROPERTY | RESULT |
|----|--|----------------------------------|
| 1. | Compressive Strength 1 Day 7 Days 28 Days | 1425 psi 3655 psi 4565 psi |
| 2. | Flexural Strength 7 Days 28 Days | 875 psi 1415 psi |
| 3. | Tensile Strength 7 Days 28 Days | 375 psi 700 psi |
| 4. | Abrasion Loss 28 Days | .19% |
| 5. | Density 7 Days 28 Days | 1.19 g/cm3 1.95 g/cm3 |
| 6. | Shear Bond 7 Days 28 Days | 320 psi 595 psi |
| 7. | Cohesive 7 Days 28 Days | 58 psi 103 psi |
| 8. | Impact Resistance 7 Days 28 Days | 19 inch/lbs. 29 inch lbs. |

Different application thicknesses and uses were tested for specific applications, but are not represented in the Test Data due to variations in mix design or specific application techniques and uses which changes the test results considerably. Variables include; density, water ratio, polymer ratio, aggregate size, application thickness, aggregate ratio to cement, aggregate composition, application tool/technique, drying temperature, environment, curing temperature & humidity.

COLOR and COLORING

TEXTURE-PAVE™ is available as a white base and can be integrally colored with PORTION CONTROL COLORANT™, available in 30 base colors or SYPP™, available in 6 primary colors. Both designed for use with white base.

PACKAGING

TEXTURE-PAVE™ is available from stock in 55 Lb. / 25 kg bags. 56 bags per full pallet. 14 pallets per standard truck load.

SHELF LIFE

Under dry conditions the average shelf life of TEXTURE-PAVE™ is 12 months from date of purchase. Must remain completely dry. Do not store directly on floors or open to weather. Failure to protect from moisture will result in clumping of the material. Rotate stock upon receipt and use.

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.

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CAUTIONS

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

The application of TEXTURE-PAVE™ requires skill and practice. Aspects such as preparation procedures, ambient and surface temperatures, mixing, installation, finishing and curing techniques, experience in the use of the material and other factors will affect the long terms performance of the overlay. Select a small section of the job and install a small test area of TEXTURE-PAVE™ to ensure suitability of the substrate.

This test area should be of adequate size to be a true representative. This test area should be installed by the installers who will be installing the actual application and under the same conditions to ensure proper comparison. Once the test area has been installed, the surface should be tested for safety reasons to ensure the surface is of adequate wet and dry slip resistance.

SURFACE PREPARATION

Concrete must be cured a minimum of 28 days prior to the application of any overlay. Surrounding areas should be protected from tracking, spills and equipment contact. The work area should be roped off and closed to traffic.

The most common overlay failure is improper surface preparation. The concrete must be structurally sound and properly prepared depending on the condition of the substrate and the application being applied.

Prior to installing TEXTURE-PAVE™ all loose material, laitance, coatings, curing compounds, sealers, grease, oil, dirt, paint and other contaminants that interfere with adhesion must be completely removed. The cleaning method to be used depends on the condition of the surface. Failure to prepare the substrate may result in failure.

The use of detergents, soaps and sweeping compounds is not recommended as the residue might create a film that will interfere with adhesion.

Once the substrate is properly prepared, a mild muriatic and water solution is needed to apply a slight "etch" of the surface, kill and bacteria and to adjust the pH of the water in the surface. Carefully pour 1 part muriatic acid into 8 parts clean water. Use protective eye and skin equipment. Use a plastic watering container to flood the surface with the acid and water solution and allow to react for 2 minutes. Do not allow the solution to dry. If the surface begins to dry, spray with water until the surface can be neutralized.

To neutralize the acid and water solution and adjust the pH, carefully pour 1 part ammonia into 8 parts water. Using a plastic watering container, flood the surface with the ammonia and water solution and rinse with water.

MIXING

The volume of water added to the mix must be accurately measured. Over watering may cause a weakening of overlay surface and surface cracking. Under watering will decrease workability and adhesion.

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 SEALER 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.

WARRANTY SUMMARY

For the complete warranty statement and important limitations, read the Safety Data Sheet and Warranty. Generally, Elite Crete Systems, Incorporated represents and warrants only that its products are of consistent quality. No other oral or written statement is authorized. Any liability is limited to refund or replacement of the defective product. The end user shall determine product's suitability and assume all risks and liability.