ELASTOPAVE

10 - 40 mm Textured Aggregate Surface Covering System

Elastopave is a surface covering system where selected graded aggregates are mixed with a PU resin binder and placed by trowel onto a prepared surface to yield a seamless, strong, durable and attractive surface.

The cured system is permeable to water and air which allows for self-draining. Elastopave is a new generation, innovative material for surface design.

UNIQUE PRODUCT BENEFITS

- Seamless flooring system which is easy to maintain.
- Elastopave can be used with crushed stone and gravel in many different colours and grain sizes from ø 1.5 mm through to approx. ø 10 mm are possible.
- High impact and abrasion resistance.
- Durable and flexible system with elasticity.
- Solvent free, low odour, environmentally friendly.

TECHNICAL DETAILS

Compressive Strength	>20 MPa	BS6319
Tensile Strength	>3 MPa	
Flexural Strength	>15 MPa	
Concrete Adhesion	>1.5 MPa (Concrete failure)	ASTM D7234
Impact Resistance	1 kg >1.8 m 2 kg >1.5 m	ISO6272-1:2011
Slip Resistance	Dry 70 Wet 25	TRRL Pendulum Slip Test
Water Uptake (Permeability)	100% porous	Karsten Test
Service Temperature	60°C	
Colours	Various Standard	
VOC	Solvent Free, 0 g/L TVOC	

SYSTEM BUILD-UP

PRODUCT (KIT SIZE)	FILM THICKNESS	KIT SIZE & COVERAGE
Polyscreed PU Primer FS	0.5 to 1 mm	6.4 L Kit covers 6.4 to 12.8 m^2
Scatter Sand	0.7 to 1.1 mm	300 g / m^2
Elastopave Screed	10-40 mm	34 kg kit 2.68 m^2 at 10 mm

PRODUCT COLOUR RANGE:

*Colour options not limited to above examples.

Leading manufactures of specialist epoxy and polyurethane flooring systems, specialised construction and corrosion protection products.

Distribution facilities nationwide

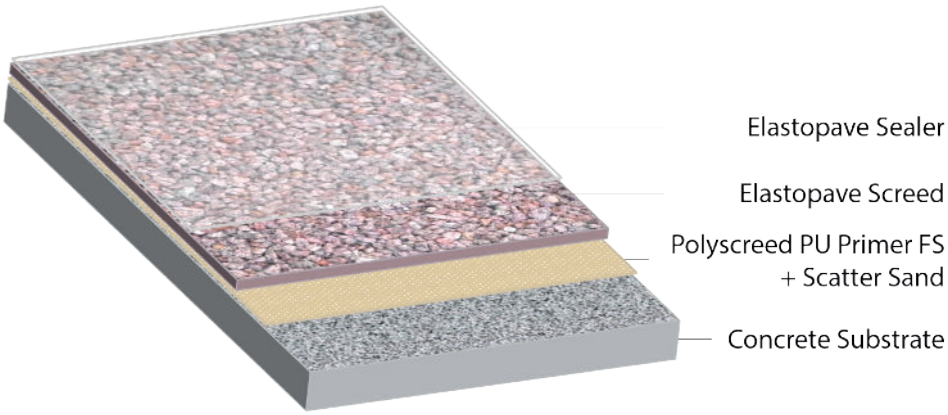
Western Cape +27 (0)21 535 4455 | **Eastern Cape** +27 (0)41 451 3944 | **Gauteng** +27 (0)11 822 7242 | **KwaZulu-Natal** +27 (0)31 705 7733

info@technicalfinishes.com • www.technicalfinishes.com

TECHNICAL FINISHES
SPECIALIST FLOORING AND CONSTRUCTION SOLUTIONS

APPLICATIONS:

- Pavements
- Car Parking Lots
- Driveways and Walkways
- Parks and recreational facilities
- Entrances and Patios
- Swimming Pool surrounds
- Decorative floors and Walls
- Indoor Stone Carpet



SUBSTRATE REQUIREMENTS

Concrete substrates must have a minimum compressive strength of 20 to 25 MPa, a minimum tensile pull-off strength of 1.5 MPa and be free of oil, fat, grease, dust, and loose friable materials. The moisture content should be less than 5% and free from rising damp. The surface finish of the concrete should be class 2 (AS 3610).

Note: Any filling of blowholes/voids and surface levelling of substrate can be achieved using appropriate products within Technical Finishes Construction Range (please speak to one of our technical sales representatives).

PREPARATION

Remove all previous coatings, unbonded concrete and laitance mechanically through diamond grinding, abrasive blasting or scarifying to obtain a sound and porous surface (sandpaper texture). Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface.

SYSTEM BUILD UP

This system consists of a buildup of two layers applied in the following sequence: the primer layer (Polyscreed PU Primer FS), with a 300 g/m^2 of 0.7 to 1.1 mm scatter sand. (Elastopave) a trowel down screed system applied at 10 mm depending on aggregate and particle size chosen.

PRIMING

Ensure application conditions of 15 to 28°C and that the concrete moisture content is below 5%. Prime with Polyscreed PU Primer FS. Broadcast scatter sand 0.7 to 1.1 mm at 300 g/m^2.

Allow primer to cure for at least 3 hours prior to application of Elastopave Screed.

MIXING & APPLYING:

Ensure that each layer is applied at the relevant film thickness to achieve the system build up required.

Elastopave

Decant the supplied Elastopave PU Resin system into a pan-mixer or concrete mixer. Begin mixing and add the 32 kg Aggregate mixture to the resin binder. Mix thoroughly for 2 to 3 minutes to ensure all aggregate is evenly wet out with PU resin binder.

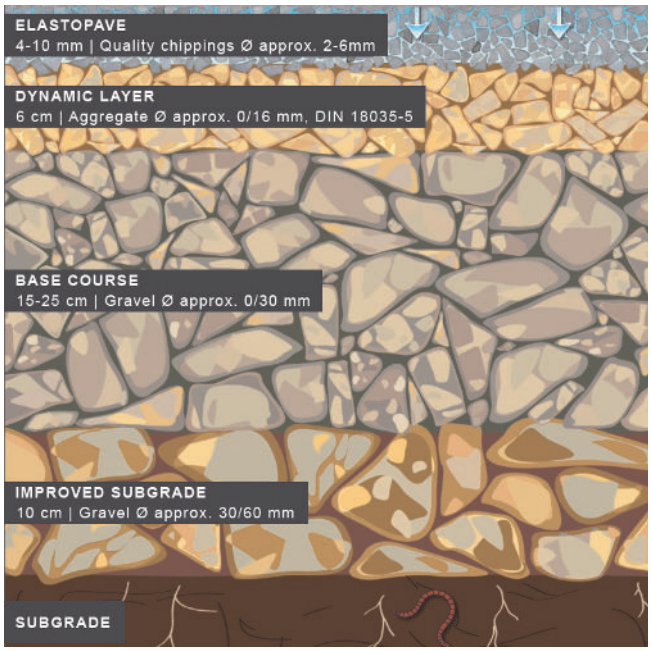
Application is by trowel down method using 10-40 mm screed bars to demarcate the area. Pour out the mix onto the demarcated area and spread the mix using a notched rake to obtain the correct coverage. Use a straight edge to assist with levelling. Smooth off with the flat edge of the trowel. A plastic trowel may then be used to ensure the surface is even and well compacted by troweling in circular motion. A small amount of soapy water may be used to prevent the mix from sticking to the trowel. Ensure the surface is even and the aggregates are densely packed during floating.

The total time of mixing and placing should be 20 to 30 minutes. Once the first mix has been placed, the following mixes should follow one after the other until the entire floor area is completely screeded in one operation. Doorways and separate rooms may be taped off and coated at another time.

SEALING

Stain resistance is enhanced if the Elastopave surface is sealed. Elastopave sealer is recommended.

APPLICATION ONTO SUBGRADE



SUBSTRATE REQUIREMENTS:

Onto level and compacted subgrade soil, install a 100mm layer of 30 to 60 mm stone. Even out and compact. The base course of 0 to 30 mm gravel is then installed at 150 to 250 mm thick and levelled. The dynamic layer of 0 to 16 mm crushed gravel is then installed at approximately 60mm and compacted.

Elastopave can then be mixed and installed directly onto the dynamic layer at a thickness of 40 to 50 mm thick using aggregate with a particle size of 0-10mm. This method of installation provides a self-draining system as water is then able to percolate through the graded layers and replenish ground water.

WATCH POINTS:

Adhere to mix ratios as supplied and do not mix partial batches. Discard any mixed material left over from the previous day. Since the system is moisture sensitive, keep equipment free of water and Part 2 containers tightly sealed when not in use.

NON-SLIP COATINGS:

The cured system is inherently non-slip with a textured finish.

MAINTENANCE:

Regular cleaning extends the service life of the Elastopave system. Clean water is all that is necessary but for heavy soiling maintenance clean is to be carried out using Liquid Action which complies with SANS 1344 Medium Duty Solvent Detergent (2112/P3325/10/ID).

HEALTH AND SAFETY:

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHSA No.85 of 1993. The finished system is not hazardous to health or the environment.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.