STONHARD

STONBLEND® LPT

PRODUCT DATA

PRODUCT DESCRIPTION
Stonblend LPT is a nominal 3mm interior flooring system that offers a cost- effective alternative to terrazzo. It combines decorative looks with excellent chemical, wear, stain and slip resistance.

USES
Ideally suited for commercial and front of house applications where a smooth, decorative, coloured quartz finish is desirable.

OPTIONS
Cove Base
To provide for an integral seal at the joint between the floor and the wall, cove bases in heights from 5 to 15cm are available. Refer to Stonshield 980 Coving Resin.

PACKAGING AND COVERAGE
Stonblend LPT is packaged as a system utilising a Universal Resin, Stonbind UR 734 for priming, coloured quarts binding and sealing.

Priming and Colorured Quartz Binding Resin
Stonbind UR 734 Resin (14 litre kit), Part A + B and (15kg fine powder) Part C, mixed together to a slurry consistency, yield 20 litres

Priming: 3m²/litre

Screed: Aggregate binding 1m²/litre

Primer Broadcast Aggregate 25kg Stonhard 6222, 2kg/m²
Coloured Quartz Aggregate, 25kg Stonblend 966C, 4kg/m²

Sealing
14lt kit Stonbind UR 734 Part A + B, 4m²/litre for interior 5lt kit Stonkote CE4-969 Part A + B, 4m²/litre for exterior 5lt kit Stonseal GS7 Part A + B, 12 to 4m²/litre

REFERENCE SAMPLE
A trial reference sample should be installed by the applicator prior to start of contract to ensure correct coverage and workmanship.

STORAGE CONDITIONS
Store component of Stonblend LPT between 16 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 3 years in original, unopened container.

TYPICAL PROPERTIES AT 25°C

Compressive Strength (ASTM C-579)	41.4 MPa
Tensile Strength (ASTM D-638)	10 MPa
Flexural Strength (ASTM C-580)	15 MPa
Flexural Modulus of Elasticity (ASTM C-580)	3×10^3 MPa
Hardness (ASTM D-2240, Shore D)	85 to 90
Impact Resistance (ASTM D-2794)	18 Nm
Abrasion Resistance (ASTM D-4060, CS-17)	0.06 mg max weight loss
Slip Index (ASTM F-1679)	0.85
Flammability (ASTM E-648)	Class 1
Thermal Coefficient of Linear Expansion (ASTM C-531)	2.5×10^{-5} mm/mm°C
VOC Content (ASTM D-2369)	18g/litre
Volume Solids	100%
Cure Rate at 25°C	12 hours for foot traffic 24 Hours for normal operation
Colour	Refer to Stonblend colour card

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment, values obtained on field applied materials may vary and certain test methods can only be conducted on lab made test coupons.

PLACEMENT GUIDELINES
SCOPE OF WORK (BOQ)
Prepare surfaces and apply Stonblend LPT as a 3mm coloured quartz power-trowelled floor screed. This system is made up of coloured aggregate bonded by epoxy resin.

SUBSTRATE PREPARATION

Remove all oils, grease and other contaminants by scrubbing with Carboclean 252 and rinsing with clean running potable water, to obtain a water break-free surface. Allow to dry. Abrade the surface by vacu-blasting or grinding to expose the aggregate and open all voids. If grinders are used to remove thin coatings, reduce or smooth the surface profiles, it will not give a surface pattern suitable for coatings unless followed by etching or vacu-blasting. The roughened surface should have a texture similar to 60-grit sandpaper, minimum tensile strength of 2 MPa and moisture content of 5% maximum.

MIXING

Do not start mixing until the substrate is properly prepared and dry with the temperature of both the substrate and the material at least 16°C. Empty the contents of Part A and Part B into a clean 25 litre pail and mix for 90 seconds with a variable speed high torque, 600 rpm mixer fitted with a spiral impeller. Then add Part C and mix for an additional 90 seconds. Do not aerate mix nor mix by hand. After mixing, Stonbind UR 964 has a working time of approximately 20 minutes at 25°C. The working time may vary depending on ambient and surface conditions.

APPLICATION OF SLURRY PRIMER

Two coats of Stonbind UR 964 Slurry are squeegee applied, utilising the wet-on-wet method. Pour a bead of Slurry Primer onto the substrate and squeegee out, being careful not to leave squeegee lines. DO NOT BACKROLL!

Once you have applied approximately 10 minutes worth of Stonbind UR 964 Slurry, walk back out onto the primer wearing spiked shoes and apply the second coat of the wet-on-wet coats. Again, use a squeegee only. In large areas you will need to have enough men to apply the first coat of Stonbind UR 964 Slurry, and the second coat of primer at the same time.

One 20 litre kit of Stonbind UR 964 Slurry will cover between 60 to 70m² on relatively smooth substrates following this 2 coat wet-on-wet application method.

> **Note:** Whilst still wet, broadcast Stonhard 6222 Aggregate evenly into the primer at 2kg/m². Do not broadcast to full rejection, it will cause pinholes. Allow to cure for a minimum of 6 hours at 25°C. Once cured, sweep all loosely bonded aggregate and vacuum.

PRIMER INSPECTION

Very porous surfaces are known to "outgas" during the primer application and can be detected as blow holes or bubbles in the opaque primer. These need to be filled level with the surface using Pro-Struct 30/35 NS Quickset Paste prior to overlaying with the coating system. If broadcast aggregate is unbounded to the primer due to absorption of the primer into the substrate, repriming will be necessary.

APPLICATION OF COLOURED QUARTZ SCREED

Apply a second layer of Stonbind UR 964 Slurry coat with a squeegee at 1m²/litre. Ensure an even layer is applied.

Blind the wet slurry coat with an even layer of Stonblend 966C Coloured Aggregate at 4kg/m² and compact with a lightweight power trowel (ensure the use of spiked shoes).

Cure for a minimum of 6 hours at 25°C. Once cured, the floor should be protected from contamination, i.e. dust and dirty boot prints.

Remove loose aggregate and lightly bonded particles with a steel trowel or lightly abrade with rubbing blocks made of coloured aggregate and resin and sweep the surface with a firm broom.

Using a white or non-marking squeegee, apply two coats wet-on-wet of Stonbind UR Clear Sealer coat at a rate of 4m²/litre (ensure the use of spiked shoes). NB: The sealer coat is made up of only Part A and B.

Apply sufficient pressure to the squeegee, ensuring that only enough sealer coat is left to fill the porosity of the mortar.

Cure for a minimum of 6 hours at 25°C.

For a matt finish, evenly apply two coats of Stonseal GS7 using a medium nap roller at 14m²/litre/coat.

Cure for a minimum of 6 hours at 25°C before opening to light foot traffic.

Allow to cure for a minimum of 24 hours at 25°C before putting Stonblend LPT into operation.

Recut expansion joints and fill with the appropriate Pro-Struct sealant to cater for the slab movement as per the engineer's design detail. For non-moving joints, seal with Pro-Struct 748 Sealer (as per the product data sheet).

RECOMMENDATIONS

- DO NOT attempt to install material if temperature of components and substrate are not within 16°C to 30°C. The cure time and application properties of the material are severely affected.
- DO NOT use water or steam in the vicinity of the application. Moisture can seriously affect the working time and other properties.
- Protect areas from dust and isolate access. Contamination between layers will affect the final appearance.
- Avoid contact with all liquid Parts A and B as they may cause skin and/or eye irritation. Workmen should cover hands with protective creams or rubber gloves and wear safety glasses.
- Use only with adequate ventilation.

NOTE

- Procedures for maintenance of the flooring system during operations are described in "StonCor Cleaning Procedures".
- Specific information regarding chemical resistance is available in the Chemical Resistance Guide.
- Safety Data Sheets are available on request.
- A staff of technical service engineers is available to assist in installation or to answer questions related to our flooring products specifically or flooring problems in general.
- Requests for technical service or literature can be made through local sales representatives and offices, or corporate offices located throughout the world.

Rev. 10/18, © 2018 Stonhard

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