

PRODUCT DATA

STONWALK

PRODUCT DESCRIPTION

StonWalk is a seamless and slip-resistant bonded natural aggregate grip system used primarily to surface outdoor areas and to repair and enhance exterior concrete damaged by salt attack. StonWalk achieves a natural, earthy appearance by scattering Canadian sourced marble aggregates into a solvent free, rapidly renewable resin based polyurethane binder which is then sealed with an extremely durable and completely UV Stable MMA seal coat. StonWalk is comprised of:

StonWalk Bodycoat

Self-priming 100% Solids Polyurethane based Resin Bodycoat utilizing rapidly renewable resources including castor oil technology to provide excellent bond to the substrate and designed to receive;

StonWalk Aggregates

Natural Marble Aggregates mined in Canada for natural looking decorative and anti-slip finishes. Available in two sizes, 2-4mm Heavy Duty and 1-2mm Standard Duty Finishes, and a wide range of standard colours;

StonWalk Flex Seal Coat

UV stable, 100% solids fast cure, flexible and extremely durable Methyl Methacrylate based Seal Coat to provide enhanced aesthetics with a permanent wet look to seal, protect and encapsulate the aggregates for added durability.

PACKAGING

StonWalk is packaged in units for easy handling. Each unit consists of:

HD/SD System

- StonWalk Bodycoat: 1 kit yielding 250ft² at 30mils (4.5 gallon kits).
- StonWalk Aggregates HD (2-4mm) or SD (1-2mm) Aggregates: (6) 55lb bags yielding 40ft² each.
- StonWalk Flex Seal Coat: 1 (5 gallon) pail yielding 250ft².
- Xpress Catalyst: 0.25 units.
- Unit Coverage: 250ft².

USES

StonWalk has been designed to ensure that walkways and external concourse areas reflect the natural beauty of the outdoors. StonWalk is ideally suited to outdoor environments subject to heavy footfall such as leisure complexes, golf clubs, theme parks, public arenas, outdoor patios, sidewalks and concourses.

BENEFITS

- Available in a wide range of decorative natural stone aggregates.
- Two aggregate sizes, 2-4mm Heavy Duty & 1-2mm Standard Duty System.
- Offers an excellent slip resistant profile.
- Capable of withstanding both heavy footfall and vehicular traffic.
- Unaffected by salts and most de-icing chemicals.
- Offers a durable alternative to loose stone and/or gravel.
- Offers a seamless alternative to traditional pavers, eliminating the cracks where weeds can grow and dirt can dwell.

TECHNICAL DATA

The figures that follow are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

Slip Resistance ASTM F1679:	SD System:
	Dry: 1.0
	Wet: 0.92
	HD System:
	Dry: 0.92
	Wet: 0.83

The slipperiness of flooring materials can change significantly due to the installation process, after short periods of use, due to inappropriate maintenance, longer-term wear and/ or surface contaminants (wet or dry).

Textured systems are recommended to meet slip resistance value requirements for wet conditions and/ or surface contaminants (wet or dry). Please contact our Technical Advisors for further details and specifications.

Impact Resistance:	ISO6272
	1 kg weight > 1.8 metres
	2 kg weight > 1.5 metres

Temperature Resistance:	Softens over 70°C, hardens on cooling
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Water Permeability:	Nil – Karsten test (Impermeable)
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Chemical Resistance:	Contact Technical Department. Good resistance to tea, coffee, cola, fruit juice, detergents and bleach. Note: for unsealed aggregates, some staining may occur in the natural stone.
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Bond Strength:	Greater than cohesive strength of 3,500 psi concrete. > 250 psi
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Abrasion Resistance*:	ASTM D40 60 107mg (CS17 Wheel 1,000g 1,000 cycles
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*Abrasion resistance is measured on smooth sealed sample due to limitations of testing equipment with textured surfaces.

- Easily cleaned and maintained.
- Attractive, natural skateboard deterrent.
- Cost effective repair and upgrade of concrete when compared to concrete replacement.
- Single day applications possible for minimal disruption*.

SUBSTRATE REQUIREMENTS

Concrete (with a minimum of 3,500psi compressive strength) must be free from laitance, dust and other contamination. The substrate should be dry to 75% RH and free from rising damp and ground water pressure. For substrate humidity above 75%, use the appropriate Stonhard primer.

Movement joints should be brought through the system and treated with a suitable caulking/sealant compound. Cracks in the substrate may be pre-treated to limit later propagation through the StonWalk System.

Actual quantities required will be dependent upon substrate porosity, profile and aggregate size (typical values shown above for the stones in the standard colour chart). Detailed application instructions are available upon request.

*Full System MMA versions are available for fastrack application. Details upon request.

SPEED OF CURE (for StonWalk base layer)

	10°C	20°C	30°C
Light Traffic	30 hrs	16 hrs	10 hrs
Full Traffic	36 hrs	24 hrs	16 hrs
Full Chemical Cure	12 days	7 days	5 days

AFTERCARE - CLEANING AND MAINTENANCE

Sweep surface occasionally to remove loose stones. Use a power washer and a mild alkaline detergent to remove surface dirt. Snow clearance equipment should be correctly maintained and all blades should be fitted with a rubber edge. Direct metal contact may cause damage to the system.

ENVIRONMENTAL CONSIDERATIONS

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduce the need for repairs, maintenance and cleaning. May qualify for LEED.

Important:

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