

Concrete by SADLERSTONE

With an unwavering passion and commitment to concrete, Sadlerstone is at the forefront of the transition of concrete from its industrial roots to an elegant and functional finish for the architectural and design community.

Sadlerstone provides designers with a unique choice in concrete—a choice that offers powerful design possibilities. Our range has expanded from indoor floor tiles to outdoor and now includes contemporary concrete finishes, wall tiles, pavers, countertops, and stair treads to suit any application.

the look / chic / *“A natural and earthy warmth that is contemporary, pleasantly tactile and feels good underfoot.”* Contemporary concrete finishes & colors, tonal variation, variety of shapes & sizes, depth, warmth, subtle translucence, natural low sheen.

the uses / unique / *“The floor is the most important element in the space, creating a dynamic viewing experience, a centerpiece that enables people to be inspired.”* Inside to outside, floors, walls and counters allow for simplicity and fluidity in design.

the precision / engineered / *“State-of-the-art equipment, consistent quality, guaranteed.”* Dimensional accuracy, durable, strong and colourfast, meeting industry standards.

FLEKK SAWN TILES: DESCRIPTION

Embracing the textural qualities of concrete, Sadlerstone’s FLEKK sawn finish exposes small speckles of aggregate to create an edgy surface.

textural / this rough finish creates an urban aesthetic when used for interiors and is perfectly suitable for external applications.

ideal for outdoor / non-slip, colourfast, UV stable, twice the strength of traditional concrete pavers, unrivaled precision, endlessly versatile.

durability / with hardness properties similar to premium natural stone, the Sadlerstone surface has high resistance to abrasion and wear.

Eco-couture

Sadlerstone recognises the need to create a range of products that are not only cutting edge, unique and functional, but also embody the philosophy of our global environmental goals.

process / Sadlerstone aspires to the Quality Assurance principles of ISO 9001 and the Environmental Management principles of ISO14001 and has attempted to provide a closed-loop manufacturing process wherein we are committed to continual improvement and the prevention of pollution.

material / Low energy, recyclable and composed of carefully-selected materials, Sadlerstone is naturally cured at ambient temperatures to provide a durable, low maintenance material.

World of Projects

Designers around the world, such as Zaha Hadid, Peter Marino and Renzo Pieno, have recognised the one-of-a-kind look Sadlerstone provides. Our impressive list of clients include: Armani, Saks 5th Ave, Hugo Boss, TUMI, Dallas Cowboys, Calvin Klein, Nine West and many more. Sadlerstone features a global supply capability, manufacturer direct, and offers technical support globally.



Palette

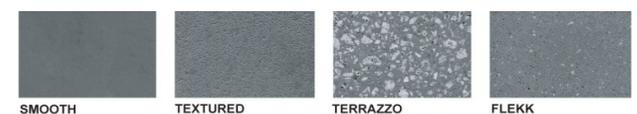
Sadlerstone is coloured by hand-selected, naturally-occurring inorganic oxides that are integral to the full body of the stone.

Sadlerstone also has a large library of non-standard colours and can even customize a colour for your special project.



Finishes

As all colours are produced in **FLEKK Honed, Polished** and **Sawn** finishes, as well as Sadlerstone’s other concrete finishes **Smooth, Textured** and **Terrazzo**, it is possible to produce a seamless transition between inside and out, with just a change in surface.



enhance/

to focus the user on the space, while complementing the design.

impact/

to influence the users experience and create a pleasurable ambience.

brand/

to create and uphold the image of the user.

last/

ease of maintenance and durability forever.

Contact **Sadlerstone** at worldsales@sadlerstone.com for all your project needs!

TECHNICAL SPECIFICATIONS

Specification

Tile Tolerances:	Size/Rectangularity: ± 0.75mm Thickness: ± 0.5 – 1.5mm Max Curvature: ± 0.5%
Installation	Flooring: Adhesive fix only using Mapei Granirapid. For tiles larger than 24" (608mm) contact Mapei for a short form specification specific to your project needs. Cladding: Adhesive or mechanically fix.
Recommended Grout Joints	Flooring: 2 mm – 5 mm (1/8" – 1/4") or minimum 0.5% of long side of tile. Cladding: As specified for installation method/materials (min 0.5%).
Expansion Joints	As per engineer's details or maximum intervals of 6m (20') for interior and 4.5m (15') for exterior applications.
Sealing	Seal with a good quality impregnator for natural finish, or enhancer for a deeper colour finish.
Colour Fastness	Negligible change in colour over 5 years. UV stable.
Warranty	15 year limited warranty against wear.
Cladding	Please view our detailed cladding technical bulletin for additional specification information

Test Results

	Sawn
Static Coefficient of Friction: Wet	0.83
Static Coefficient of Friction: Dry	0.93
Abrasion Resistance	178
Mohs Hardness	6
Compressive Strength	8702psi (60mpa)
Tensile Strength	1401psi (9.6mpa)
Freeze Thaw	No significant change or material erosion after 25 cycles

Weight

	10mm, 3/8"	15mm, 5/8"	20mm, 3/4"	25mm, 1"	40mm, 1 1/2"
Lb/ft²	5	7.5	10	12.5	20
kg/m²	25	38	50	63	100

Sizes

Coordinating stair treads, base tiles, and custom pieces are available.

Tile Size		Thickness (indicative guide only)				
Mm	Inches	10mm 3/8"	15mm 5/8"	20mm 3/4"	25mm 1"	40mm 1 1/2"
303x202	12 x 8	LD	Std	HD	EHD	EHDP
303x303	12 x 12	LD	Std	HD	EHD	EHDP
303x405	12 x 16	LD	Std	HD	EHD	EHDP
303x608	12 x 24	LD	Std	HD	EHD	EHDP
405x405	16 x 16	LD	Std	HD	EHD	EHDP
405x608	16 x 24	LD	Std	HD	EHD	EHDP
405x811	16 x 32	LD	Std	HD	EHD	EHDP
405x1200	16 x 48	LD	Std	HD	EHD	EHDP
608x608	24 x 24	LD	Std	HD	EHD	EHDP
608x811	24 x 32	LD	Std	HD	EHD	EHDP
1200x1200	48 x 48	LD	Std	HD	EHD	EHDP

LD Light Duty (cladding/pedestrian), Std Standard (retail/commercial/residential), HD Heavy Duty (point loads/torllifts/cars), EHD Extra Heavy Duty (vehicle traffic), EHDP Extra Heavy Duty Plus (sand/gravel bed).

Constituents

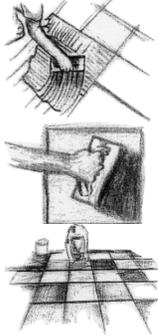
Sand (35-45%), Cement (15-25%), Water (5-7%), Granite Aggregate (30-40%)
Pigment (0.3 – 0.7%), Water Conditioner (0.2%)

Environmental Impact

- Rather than baking or firing (often the case with hard-surface floors) Sadlerstone is manufactured in efficient sized slabs which are left to naturally cure at ambient temperatures, ensuring an overall lower embodied energy.
- Natural inorganic oxides colour the stone, ensuring the tiles remain colourfast.
- Sadlerstone recycles all manufacturing by-products and operates a closed-loop manufacturing system with zero emissions to air, water or land.
- In addition, as an agglomerate of natural materials, Sadlerstone itself is recyclable and can be used in numerous post consumer applications.

INSTALLATION

The following is an outline Sadlerstone installation, finishing and care procedures for a typical installation. Various installation conditions and types of sub-floors, dimensions of tiles (with a single dimension greater than 800mm/32") and end uses require different approaches or additional steps in the installation preparation, method and materials. In such cases, provide the project engineer with details of the technical characteristics of Sadlerstone tiles and tile dimensions for the engineer to assist with drawing up a specification. For atypical installations or for further advice, please contact Sadlerstone or your Mapei adhesive specialist.

 <p>Store</p>	<p>Handle consignment with care and inspect carefully. Store crates indoors, away from direct sunlight, and on a level surface. No more than two crates stacked high. Where extreme climate differences are apparent between stored and installed environments, allow tiles to season in final installation environment in open crates for a period of four days.</p>
 <p>Prepare Substrate</p>	<p>Ensure substrate is level and free from grease, wax, dirt, sealers, acids, curing compounds, and old adhesives. Slab and/or screed must be cured to a minimum 5.5% moisture content. Where water can penetrate tile from below, ensure water-proofing membranes are used in slab. To obtain a high bonding strength on a mortar bed or screed, use a latex-additive adhesive. For unusual installations, e.g. timber floor substrates, contact your Mapei representative for a short-form specification.</p>
 <p>Install</p>	<p>Install over clean, level, cured substrate. Apply Sadlerstone recommended adhesive—Mapei Granirapid—a premium-quality, fast-setting, latex-based adhesive. Do not dilute with water. Use a notch trowel (No. 6 is recommended) BLEND: always blend tiles to enhance natural tonal variations. Tiles should be cut using a wet saw. BACKBUTTER: always backbutter 100% of the back of all tiles using the side of the trowel. Handset tiles into position. Do not mallet as excessive force can cause fractures. <u>Prior to grouting, apply one coat of Pre-Seal. This will assist with grout release.</u> Use a quality proprietary cement grout such as Sadlerstone recommended Mapei Ultracolor Plus. Grout joints should be 0.5% of the longest tile edge. Remove spills, adhesive and grout immediately. Do not allow to set or dry on surface. Cover installed tiles. Do not use duct or gaffer tape, bleached acids or polysolvents on tiles.</p>
 <p>Clean</p>	<p>Sweep excess dirt from surface. BUFF: Apply neutral cleaner to surface in liberal quantities and in manageable sections. Using a buffing machine and a blue 3M pad, work machine in all directions ensuring surface does not dry. Remove developed slurry from surface with a wet-vac or squeegee. Mop with clean mop to ensure all dirt is collected. Repeat mopping process until floor is clean.</p>
 <p>Seal</p>	<p>Ensure tiles are clean, completely dry, and free of residue. Apply an even coat over the surface with an impregnating sealer (e.g. hueSTONE Natural Finish Stone Seal or Aqua Mix Impregnator) using a lamb's wool applicator. Reapply second coat when sealer is dry (60 minutes) repeating above process. Dry-buff the surface with a green Twister™ pad (or a white 3M pad) and buffing machine working in all directions. The surface should be allowed 24 hours to fully cure and develop weather resistance.</p>
 <p>Maintain</p>	<p>Maintain with regular cleaning using warm water and a neutral detergent. Clean up spills immediately and spot clean with a neutral detergent. Periodic buffing with a floor-buffing machine and a green Twister™ pad (or a red 3M pad) can increase the level of the sheen. Always use protectors on table legs, chairs, and other moveable furniture. For maintaining floors finished with a surface sealer, refer to the sealer manufacturer's procedures.</p>



Non-Slip



Seamless



Colourfast



Eco-friendly



Precision