

Stone Seal Terrazzo

Seamless Architectural Topping

High-performance architectural terrazzo system

A two-component, cement-based terrazzo topping in any chosen colour, with selected aggregates in a range of sizes, styles and colours, all interchangeable — an unlimited choice of natural stone including marble, granite, quartz and basalt, together with mother of pearl and recycled glass — poured in situ and mechanically ground and polished to a typical 10 mm finish, up to 30 mm, over a prepared substrate.

SPECIFICATION SUMMARY — STONE SEAL TERRAZZO

System: Stone Seal Terrazzo — Seamless Architectural Topping, high-performance architectural terrazzo system, supplied and installed by Stone Seal Ireland, Unit 10 Wilsborough Business Park, Clonsaugh, Dublin 17, D17 VN12 · T +353 (0)1 877 0436 · www.stonesseal.ie

Thickness: [10] mm finished (typical 10 mm; up to 30 mm), installed from 12 mm and mechanically ground and polished, over a receiving substrate prepared to the Stone Seal specification.

Colour / aggregate / exposure / finish: [] / [] / [micro · medium · full] / [matt · satin · gloss], agreed against approved sample panel ref. [].

Performance: C60 / F13 – EN 13892-2 · AR0.5 – EN 13892-4 · A1fl – EN 13501-1 · dimensional change < 800 µm/m – EN 13454-2 · PTV ≥36 (Wet) – IS EN 16165 on the specified finish, verified by post-installation testing.

Joints: joint-free up to 600 m²; master, structural and movement joints carried through the flooring system where present.

Credentials: EMICODE EC1 PLUS · EPD DAP 002:2023 (EN 15804+A2) · No intentionally added APEOs · CE marked (DoP DDSTL0193.17).

1 Application

Stone Seal Terrazzo is installed by Stone Seal's own applicators as a controlled system: substrate survey and assessment, preparation, repair and levelling, priming, controlled pour, grinding, pore filling, polishing, sealing and protection.

It delivers the character of terrazzo — a specified colour and aggregate composition, revealed by grinding, with the depth and natural variation of a site-ground mineral floor — as a seamless, low-profile topping on the floors that a traditional bedded terrazzo cannot reach.

2 Description

Stone Seal Terrazzo is a high-performance architectural terrazzo system, poured, ground and polished in situ from 12 mm to a 10 mm finished floor. Colour, aggregate type, size and percentage, exposure and sheen are all specified and agreed by sample, so the floor is designed rather than selected.

Features and benefits

- Typical 10 mm finished floor; up to 30 mm (see Measurements)



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- Seamless by design: joint-free up to 600 m² (see Movement and joints)
- Bespoke colour and unlimited aggregate choice — natural stone, mother of pearl, recycled glass
- Exposure from micro-terrazzo to large aggregate
- Hard-wearing mineral wearing surface for public, commercial and residential floors
- C60 compressive / F13 flexural (EN 13892-2); AR0.5 abrasion (EN 13892-4)
- A1fl reaction to fire – EN 13501-1
- Dimensional change < 800 µm/m (EN 13454-2); no-shrinkage formulation
- PTV ≥36 (Wet) – IS EN 16165 on the specified finish; verified by post-installation testing
- Light traffic after 2 days; heavy traffic after 7 days (product guidance, not project programme)
- Follows the architecture: curves, brass divider strips, multiple mixes, steps, ramps, lift cars
- Suitable over correctly designed and commissioned underfloor-heating substrates, and over approved raised access floor constructions, subject to project assessment
- Interior and exterior applications; exterior subject to project-specific assessment
- EMICODE EC1 PLUS · EPD DAP 002:2023 · No intentionally added APEOs · CE marked (DoP DDSTL0193.17)

General information

Finish – Bespoke terrazzo, mechanically ground and polished. Specified colour and aggregate composition; handcrafted installation; matt, satin or gloss agreed at sample stage.

Approved appearance – Stone Seal Terrazzo delivers a specified colour and aggregate composition with the natural tonal variation of a site-ground mineral floor. An approved sample panel establishes the agreed reference for colour, aggregate blend, exposure, sheen and general surface character.

Material – Two-component cement-based terrazzo topping with selected aggregates. C60 compressive / F13 flexural (EN 13892-2). AR0.5 abrasion (EN 13892-4).

Substrate – Sound, stable concrete or bonded cementitious screed: clean and free from dust, grease, laitance, loose material and contamination; minimum pull-off 1.5 MPa; maximum moisture 4%; no rising moisture. Mechanically prepared, vacuumed and primed. Suitability, preparation, build-up, priming and movement strategy assessed by Stone Seal as part of the flooring specification.

3 Movement and joints

Stone Seal Terrazzo is joint-free up to 600 m². Master, structural and movement joints must be respected and carried through the flooring system where present.

Dimensional change < 800 µm/m – EN 13454-2. Low-shrinkage system designed to reduce the risk of shrinkage-related cracking. Existing cracks and redundant joints in the substrate are repaired and reinforced before the pour; genuine structural joints are detailed through the flooring system where required.

4 Measurements

- Length – Bespoke

- Width – Bespoke
- Thickness – Finished 10 mm typical, up to 30 mm; installed from 12 mm; minimum 10 mm after grinding

5 Specification data

Description	Values
Colour	Bespoke to the project; agreed against an approved sample panel (RAL references indicative only)
Aggregate	Natural stone (marble, granite, quartz, basalt and others), mother of pearl, recycled glass; type, size, colour and percentage bespoke; micro-terrazzo to large aggregate
Material	Two-component cement-based terrazzo topping with selected aggregates
Compressive strength	C60 – EN 13892-2
Flexural strength	F13 (13–20 MPa at 28 days) – EN 13892-2
Abrasion resistance	AR0.5 – EN 13892-4
Reaction to fire	A1fl – EN 13501-1
Dimensional change	< 800 µm/m – EN 13454-2; low-shrinkage system designed to reduce the risk of shrinkage-related cracking
Slip resistance	PTV ≥36 (Wet) – IS EN 16165, on the specified finish; verified by post-installation testing
Joint-free area	Up to 600 m ² without intermediate contraction joints; master, structural and movement joints respected
Thickness	Finished 10 mm typical, up to 30 mm; installed from 12 mm; minimum 10 mm after grinding
Finish	Matt, satin or gloss; exposure micro to full, agreed at sample stage
Installed weight	Approx. 24–27 kg/m ² at 12 mm (derived from manufacturer consumption data)
Sealing	Sealed to suit use and traffic; sealing system confirmed at specification
Open to traffic	Light 2 days – heavy 7 days (product guidance, subject to curing, protection and site conditions)

Slip resistance: Stone Seal Terrazzo can be mechanically refined and finished to specification to achieve a Pendulum Test Value (PTV) ≥36 (Wet) in accordance with IS EN 16165. Slip resistance can be specified according to the intended use and final surface treatment, with final performance verified by post-installation testing.

6 Specification clause

Stone Seal Terrazzo — Seamless Architectural Topping, architectural terrazzo system, installed by Stone Seal.

- Thickness: [10] mm finished (typical 10 mm; up to 30 mm); installed from 12 mm.
- Colour: []; aggregate type / size / percentage: []; exposure: []; agreed against approved sample panel ref. [].
- Finish: [matt / satin / gloss], agreed at sample stage.
- Receiving substrate: assessed and prepared to the Stone Seal specification, including preparation, repair, levelling, priming and movement strategy.
- Joints: master, structural and movement joints carried through the flooring system where present.
- Grinding, filling and polishing: to the approved sample; sealing to suit use and traffic, system confirmed at specification.
- Protection and handover: breathable protection only; no wet cleaning for 5–7 days after completion.

Full 17-section BOQ clause available from Stone Seal on request.

7 Design and specification guidance

Finished floor level: Establish the Stone Seal finish allowance and true finished floor level first; screed, levelling, thresholds, steps and ramps are coordinated backwards from that datum. The pour is set approximately 2 mm above the required finished thickness.

Sample approval: An approved sample panel, referenced in the project documentation, establishes the agreed colour, aggregate blend, exposure, sheen and general surface character. Natural tonal variation and variation in aggregate distribution are characteristics of the material, not defects.

Receiving substrate: Surveyed and assessed by Stone Seal for stability, integrity, moisture, cracks, joints and level before the build-up is confirmed. Raised access floor constructions are reviewed for panel type, rigidity, deflection, restraint and loading before specification.

Interfaces: Brass divider strips and profiles primed and sand-broadcast on contact faces; thresholds, mat wells, step nosings, ramps and lift-car continuity developed with the design team from the relevant sections.

Maintenance: PH-neutral cleaner; maintenance guide available on request.

Design-stage support: Stone Seal reviews build-ups, substrates, thresholds, movement joints and details at design stage, and provides samples and bespoke mix development.

Samples: An extensive selection of completed terrazzo samples at the Stone Seal showroom, D17 VN12; bespoke project samples produced from the agreed direction.

8 Environmental credentials

Environmental Product Declaration DAP 002:2023, prepared to EN 15804+A2, valid until 17 October 2028. Supports lifecycle assessment and sustainability review.

Very low emission: EMICODE EC1 PLUS (GEV licence 9611/01.09.18).

APEO: No intentionally added alkylphenol ethoxylates (manufacturer confirmation, September 2026).

LEED: Environmental documentation and product characteristics may contribute toward applicable LEED credits, subject to the requirements and assessment of the individual project.

Construction strategy: A terrazzo wearing surface finished at 10 mm can support retention of existing floor construction and avoid the depth and weight of a traditional bedded terrazzo, where the receiving substrate permits.

9 Limitations

Interior and exterior applications; exterior applications subject to project-specific substrate, exposure, drainage and system assessment. Not for installation over damp substrates or substrates subject to rising moisture. Ambient and substrate temperature 10–32 °C during installation; underfloor heating switched off during installation and curing and recommissioned gradually. Breathable protection only; no non-breathable coverings during or after curing.

10 Certifications

- EMICODE EC1 PLUS – GEV licence 9611/01.09.18, valid until 15 May 2028
- Environmental Product Declaration DAP 002:2023 – EN 15804+A2 – valid until 17 October 2028
- CE marked – Declaration of Performance DDSTL0193.17 (EN 13813)
- A1fl – EN 13501-1, the highest reaction-to-fire classification available for flooring
- Manufactured under ISO 9001:2015

Component certificates available on request.

Warranty: installation warranty available; terms confirmed at tender.



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