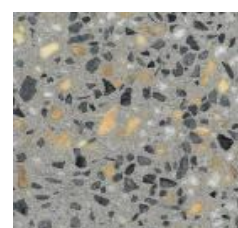


Architectural Terrazzite ZV

A hardwearing seamless thin set (6mm) synthetic resin bound Terrazzo floor finish featuring a colour resin base and numerous aggregate types. The final effect is determined by both the resin base colour and the choice of Marble chips. This offers the designer an unlimited choice of colour, chip appearance and overall layout.

ZV refers to Zero Voc: this term describes resin systems that are Solvent free and emit no fumes during application. Non-flammable.

The floor may be laid with colour patterns, borders, metal (brass) dividing strips or in any effect required.



Some examples of

use:

See full list of contracts

Many Projects exist in standard Architectural Terrazzite, eg:

• Northlands mall Christchurch	• Glenfield Mall Auckland
• Hornby mall Christchurch	• West City Auckland
• Meridian centre Dunedin	• Botany Centre Auckland
• MacArthur Centre Australia	• Lynmall Auckland
• Maryborough Mall Australia	• Queens Wharf Wellington
• Selected Pak n' Save stores	• North City Wellington

The **ZV version** was released in Jan 2008. As at time of writing the system has been successfully installed in parts of the new pier B at Auckland airport.

**TYPICAL PHYSICAL
PROPERTIES/
FEATURES:**

Uses:

- Thin set resin Terrazzo as normal Architectural Terrazzite but its **ZERO odour** gives it added benefits for use in:
 - Store re-modelling and refits.
 - Operating stores, malls
 - Operating stores, Toilets, restrooms
 - Foyers, offices in operating areas.
 - All public spaces.
- Architectural Terrazzite ZV is a hard wearing, jointless (not tiles), thin set (6mm) polished Terrazzo.
- Wide range of colours available.
- Excellent aesthetic appeal.
- Can incorporate detailed inlays, designs, logos and patterns within the floor topping.
- Excellent abrasion resistance (wearability).
ASTM C501 (H22 abrasive wheels and 1000gm load)
Abrasive wear index 22
- Excellent impact resistance
 - Compressive strength: 62Mpa
 - Flexural strength: 17.6Mpa
 - Shore D hardness: 38
 - Tensile strength: ASTM C307 10.1Mpa
- Excellent adhesion to properly prepared and primed substrates.
- Excellent adhesion to concrete.
- Cohesive failure of the concrete at 1.3 Mpa.
- Excellent resistance to thermal shock.
- Co-efficient of thermal expansion:
 - ASTM C531 $1.49 \times 10^{-5}/^{\circ}\text{C}$
- Service temperature range continuous +80°C - -30°C
- Slip resistance complies with NZ/AS 3661 1993 **dry**.
- Co-efficient of friction 0.65.
- Slip resistant option available for wet areas – refer to Allnex Industries.
- Flammability AS 1530.3-1989:
 - Ignitability Index (0-20): 10
 - Spread of Flame Index (0-10): 6
 - Heat Evolved Index (0-10): 3
 - Smoke Developed Index (0-10): 6
- Minimum thickness: 6.0mm
- Weight: 12kgs/m² @ 6.0mm thick
- Easily cleaned and maintained with the correct polishes.
- Falls can be built up to aid drainage and avoid ponding. Refer to Allnex STZ Prefill.
- Good exterior weathering resistance and durability.

IGNITABILITY:

- Tested in accordance with BS4790:1987:**Pass**
 - Time till flame extinction: 30 seconds
 - Time of afterglow: 4 seconds
 - Containment radius: 15mm

SUGGESTED USES:

- To provide an attractive, wear resistant, Terrazzo finish topping for shopping malls, supermarkets, food halls, foyers, entrances.
- Company logos in entrances or foyers.
- To give a cleanable attractive floor in areas subject to excessive foot traffic.
- Floors where aesthetic appeal and wear resistance is a prime requisite.

NOT RECOMMENDED:

- Application to uncured concrete (minimum cure 28 days).
- Application to unstable substrates.

**SURFACE
PREPARATION:**

(Refer to Allnex full specification #330 available on request)

Concrete is to be at least 28 days old and dry to below 75% RH. All surfaces are to be shotblasted by captive shot. Concrete joints are to be carried through the Terrazzite topping and filled with K130 sealant after installation.

APPLICATION

Primer/sealer –Intafloor Primer. Apply Architectural Terrazzite ZV over the primer within 24 hours. Power float and/or hand trowelled. Polished on curing with varying grades of grinding stones. Sealed

METHOD:

MIX RATIOS (TYPICAL):

Standard Formulations

IMPORTANT #1 : Add 6% Cobalt Solution to the resin at a rate of 200mls per 20kg. Do this as a separate process but during the same day as using the resin. Identify promoted pails.

IMPORTANT #2

The pails of promoted resin must be mixed again immediately before decanting, weighing and the addition of catalyst. This is to prevent phasing and hence colour variation.

Promoted Architectural Terrazzite Resin 12.5kg
STZ VE Catalyst 200 – 250mls (1.5 -2.5% by volume)

Mix well with the resin.

ZV systems: Approved contractors will be required to undergo training and sign application certificates for this system.

Caution

#1 Marble chips (3-6mm) 25kg
#2 Fine grade Marble Chip, eg CPG 25kg

- **Weigh** all ingredients as bag weights may vary.
- The #1-marble chips (3-6mm) commonly consist of a combination of black, white, murchison cream, dolomite, red and green marble chips. Granite based systems are referred to as GRANITZZITE. All marble aggregates must be of an Allnex approved grade.
- **Base Colours:** Architectural Terrazzite is provided as white (BS 10A01) or as colour bases as specified on the BS5252F chart. Other colours can be matched as required. Refer to Allnex for the BS5252F chart. Some colours are **not** suitable. Refer to Allnex for selection advice.
The resin to aggregate ratios is very specific and may not be altered by the contractor.

Caution

Note: A variety of gel times are available to suit the ambient temperatures.

MIX METHOD:

Concrete mixer, Hobart mixer, paddle mixer etc.

Note: Care must be taken to avoid air entrainment.

Installation: Lay over primed surface. Allnex Architectural ZV Terrazzite must be applied by trowel and glass float to compact the matrix in such a manner to achieve a **minimum 6mm** thickness when ground and polished. Normally this is 10-12mm as laid. An installation guide is available.

COVERAGE RATES:

(Approx.)
6.0mm topping to 1m²

Architectural ZV Resin: 4.5kg/m²
Aggregate blend: 17kg/m²

Note: The above rates are theoretical and do not take into account losses through surface irregularities, mixing and application.

THINNING:

Not recommended.

CURE AND DRY TIMES:

(25°C 50% RH)

Workable pot life: approx. 45 minutes
Hard Dry: 5 hours
Grind Start Time: 16hrs
Recoat: anytime
Full cure: 24 days

GROUTING:

Pinholes are produced by the laying and grinding process. These are progressively filled during the grinding process as outlined in the Allnex specification.

FINISHING:

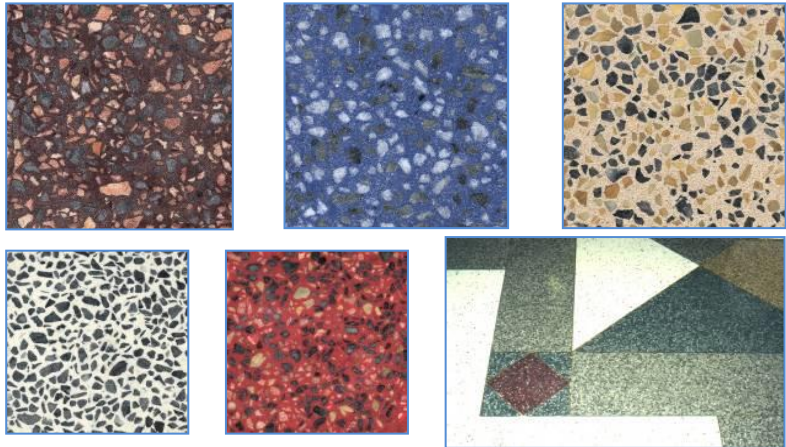
Once laid, Terrazzite is progressively finished with finer grinding stones until an even aggregate effect is obtained. All areas must be evenly treated.

Prior to handing over, two coats of **CRYSTAL SEAL** (or Aquaglaze UV if solvent free is required) are applied to seal the surface and to help prevent contamination ie stains. NB If the floor is likely to be wet eg Toilets, Seal the floor with two coats of Revathane polyurethane.

Protect the floor prior to the full polish system.

Polishing may or may not be part of the installation contract. Immediately, before surface contamination, treat the floor with multiple coats of a normal waterbased floor polish. (see cleaning spec documents). This should be repeated on a normal basis as part of the floor maintenance. The slip resistance is controlled by the type and quantity of polish applied. The Eclipse Pioneer system is a recommended multicoat floor polish system.

CLEAR finish: the Intafloor Topcoat may be used as a clear topcoat in specific circumstances. In this instance, apply one coat only.



ARCHITECTURAL TERRAZZITE GENERAL

Allnex Architectural Terrazzite is a polished synthetic terrazzo flooring made up of marble aggregates and polyester based resin. This specification deals with:

1. Manufacture of Materials
2. Finish Options
3. Surface Preparation
4. Application
5. Producer Statement
6. Full Specification

1. MANUFACTURE OF MATERIALS

All materials shall be produced, supplied or specified by Allnex Industries Ltd. To avoid incompatibility of component material it is essential that Allnex technical staff is consulted before any product other than those specified is used. Choose the resin base carefully:

P: STD System,

ZV: fully odour free system (Zero Volatile organic compounds) No emitted solvents. No smell.

Or less commonly: WB :water based epoxy, E: Epoxy system,

See differences at document end.

2. FINISH OPTIONS

The colours and patterns that can be achieved with Architectural Terrazzite are almost limitless so it is important that a 300mm x 300mm sample of colour and pattern be submitted to the Architect, Engineer, Client for approval.

3. SURFACE PREPARATION

CONCRETE

Shall have a surface which has been mechanically trowelled to an NZS3114:1987 U3 finish or better than **lightly** broomed after compaction and screeding to assist with mechanical bond. This must then be rough ground or shot blasted prior to priming.

A minimum compressive strength of 25 Mpa at 28 days cure.

Prepare the concrete and Remove all contaminants including cement laitance, dirt, grease, oil, existing coatings/toppings, unsound substrate etc by shot blasting, grinding, scabbling, hammering etc as appropriate.

Deep depressions, defects, hollows etc to be repaired or filled using Allnex Architectural Terrazzite Prefill system.

OTHERS: Refer to Allnex Industries Ltd for specific recommendations.

6. **APPLICATION**

Apply Allnex Architectural ZV Terrazzite flooring to correctly prepared and sealed substrate by hand trowel and/or power float.
 Allnex Architectural ZV Terrazzite must be applied in such a manner to achieve a **minimum 6mm** thickness when ground and polished.
 Floor patterns may be achieved with the use of angle strip between sections of the floor or by simple demarcation without metal strip (preferred).
 Grinding shall be accomplished by a wet process using standard terrazzo grinding equipment.
 Grout pinholes before finally finishing with 220 grit stone and polishing with Terrazzo acid blocks or pads.
 A log shall be kept by the Allnex Architectural Terrazzite contractor and be made available to Allnex Industries Ltd at their request.
 Information to be recorded daily on flooring QC as supplied to Allnex licenced contractors.
 Treatment of cracks and control joints, please refer to Industrial Terrazzite specification in this section of the manual.

5. **PRODUCER STATEMENT**

The products, systems and application of Allnex Architectural Terrazzite comply with the requirements of the Building Industry Authority and related acts. In particular, two items of key importance are complied with. These are slip resistance and durability. The warranties implied by the “Durability” code are accepted and complied with. The factors required by the slip resistance code are also complied with.

6. **FULL SPECIFICATION**

A full and highly detailed specification is available on request from Allnex Industries Ltd.
 This specification is to be read in conjunction with relevant technical data sheets. If in doubt please contact Allnex Industries Ltd, Building Products Division.

System Options

Standard Architectural Terrazzite	<ul style="list-style-type: none"> • Polyester base • All bright colours • Very rapid cure (2 hours) • Some odour during installation only • Mid-price
Architectural Terrazzite Mode E	<ul style="list-style-type: none"> • Epoxy base • No odour • Expensive • Less suitable for light, bright, white colours than standard version
Architectural Terrazzite Mode WB Waterbased epoxy base	<ul style="list-style-type: none"> • No odour • Slower cure 24 – 48 hours • Complex system • Lowest price <p>Not suitable for light, bright colours</p>
Architectural Terrazzite Mode ZV	<ul style="list-style-type: none"> • Similar To Standard Terrazzite • ZV: Zero VOC or zero volatile organic compounds No emitted solvents. • Full & light colours range. Good colour stability <p>Re</p>

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