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## **INDUSTRIAL TERRAZZITE Specification**

### **GENERAL**

**NUPLEX INDUSTRIAL TERRAZZITE** is an extremely hard wearing, chemical resistant, monolithic, 6.5mm thick, resin based floor topping.

This specification deals with:

1. Manufacture of Materials
2. Finish Options
3. Surface Preparation
4. Application

#### 1. **MANUFACTURE OF MATERIALS**

All materials shall be produced, supplied and specified by Nuplex Industries Ltd. To avoid incompatibility of component material it is essential that Nuplex technical staff be consulted before any product other than those specified is used.

#### 2. **FINISH OPTIONS**

Industrial Terrazzite can be modified to achieve a range of colours and almost any degree of surface texture from smooth to a coarse slip resistant finish. A 300mm x 300mm sample of colour and pattern shall be submitted for approval by the Architect, Engineer and Client.

#### 3. **SURFACE PREPARATION**

It is the licensed contractors responsibility to inspect all areas which are to receive the Industrial Terrazzite topping and report any unsatisfactory conditions to the main contractor. Listed below are detailed specifications for prepared various substrates.

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**INDUSTRIAL TERRAZZITE** (cont'd)

**CONCRETE REQUIREMENTS**

Remove all contaminants including cement laitance, dirt, grease, oil, existing coatings/toppings, unsound substrate, etc by shot blasting, grinding, scabbling, acid etching, hammering etc as appropriate. **Note:** When acid etching ensure acid is not permitted to dry before removal. Ensure all traces of acid and contaminants are thoroughly removed, preferably by waterblasting. Ensure acid does not damage adjacent surfaces i.e. metal fittings, electrical switchgear etc.

To create fall to the existing floor or to repair deep depressions, defects, hollows etc use Nuplex STZ Prefill system as required.

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

A minimum cure time of 28 days. A moisture content less than 18% or 75% RH.

All falls and levels to be accurately laid into the concrete. A surface free of cement laitance or other contaminants and any roughly screeded or floated patches or areas.

No traces of cure membranes.

A suitable vapour resistant membrane beneath the concrete slab is required i.e. polythene.

Have a moisture content less than 18% or 75% RH. A minimum cure time of 28 days.

**For other options on new or wet floors, please refer to our website**

**[http://www.nuplexconstruction.co.nz/html/resinflooring\\_fr.htm](http://www.nuplexconstruction.co.nz/html/resinflooring_fr.htm) .**

Must be sound and stable.

**INDUSTRIAL TERRAZZITE** (cont'd)

**WOODEN FLOORS**

(Other sheet flooring systems to be referred to Nuplex Industries Ltd)

Control joints in the wooden floor and Nuplex Industrial Terrazzite topping should be at maximum 5m grids in any direction. (Refer to section 7.5 of this specification.)

Any joists, battens or any other supporting structure to be at no greater than 400mm centres.

Plywood sheets to be fixed to sub frame using suitable corrosion resistant screws and placed at maximum 150mm centres.

All joints (where possible) in the plywood sheeting are to be staggered to avoid weakness in the timber grids eg: brick pattern

Plywood a minimum of 18mm in thickness, ridged, free of cracks, deflection, and solidly screw fixed to the sub frame work.

Free of waxes, varnishes, paints and any other material likely to interfere with the fusion of the Nuplex Industrial Terrazzite to the wood (a test area may be laid to determine this).

Have moisture content less than 12%.

Sanded smooth using coarse grit sanding paper.

Sheets are to be of an exterior grade. Slatted wooden floors such as T&G (refer Fig.1 page 16) should be overlaid using a suitable exterior grade plywood (or other suitable sheet material) solidly screw fastened to the existing floor. A 1-2mm gap is to be left between sheets. Suitable timber treatments include Tanalith (water based) type treatment. Treatments based on white spirit or other solvent carriers are not suitable for use with Nuplex Sureshield.

All joints to be slip joint taped (slip joint tape to be 20mm wide minimum), fibre glassed using 450gms m<sup>2</sup> chopped strand matt bandage and Nuplex Industrial Terrazzite resin. Ensure joints between sub-floor sheets and the fibreglass are staggered. Minimum overlap onto ply with fibreglass bandage is 100mm.

## **INDUSTRIAL TERRAZZITE** (cont'd)

Where Nuplex Industrial Terrazzite is being installed onto plywood over battens, joists or bearers (refer Fig.2 page 17) the plywood is to be minimum 2 layers (total minimum thickness 18mm) laminated with all joints staggered to ensure maximum strength and integrity. All joints are to be fibreglassed using 450gsm chopped strand matt bandage. (minimum overlap onto plywood 100mm).

### **METALS**

Refer Nuplex Industries Ltd for specific recommendations.

### **ASPHALT OR BITUMEN**

Asphalt or bituminous surfaces are unacceptable substrates to receive Nuplex Industrial Terrazzite finishes.

### **CEMENT PLASTER**

Treat as for new or old concrete. **Caution: soundness of the plaster is important** as the surface tension created by Nuplex Industrial Terrazzite may lead to failure of any unsound plaster.

Please **thoroughly** check soundness of plaster surfaces prior to application of Industrial Terrazzite.

### **OTHER SURFACES**

Refer Nuplex Industries Ltd for specific recommendations.

## 4. **APPLICATION**

All products shall be applied by Nuplex Licensed Contractors. (A current list of licensed contractors is available at the front of the Construction Products Manual.)

### **INSTALLATION OF INDUSTRIAL TERRAZZITE**

Apply Nuplex Industrial Terrazzite flooring to correctly prepared and sealed substrate by hand trowel strictly in accordance with Nuplex specifications or instruction in Nuplex Application manual.

Nuplex Industrial Terrazzite must be applied in such a manner to achieve a minimum thickness of 6.5mm. Screed bars may be used as a guide to achieve accurate falls and thickness.

**NOTE:** A greater film build than 6.5mm may be required under the following circumstances:

- Meet MAF requirements
- Resist high thermal shock conditions
- Resist high impact conditions

**INDUSTRIAL TERRAZZITE** (cont'd)

A log shall be kept by the Nuplex Industrial Terrazzite contractor and be made available to Nuplex Industries Ltd at their request.

Information to be recorded daily:

1. Material batch numbers used.
2. Sequence of mixing, ratios, quantities and formula.
3. Substrate moisture content. )
4. Substrate temperature. )To be recorded twice daily
5. Ambient temperature. )am and pm
6. Ambient relative humidity. )

Where required all falls and levels in substrate are to be followed with Nuplex Industrial Terrazzite to ensure adequate drainage and avoid ponding of liquids.

Where required all falls and levels in substrate are to be accurately followed with Nuplex Industrial Terrazzite to ensure adequate drainage and avoid ponding of liquids. A minimum fall of 1:50 is recommended to guarantee no ponding of liquids. Falls less than 1:100 will result in ponding. Alternatively falls can be achieved or corrected using Nuplex STZ Prefill.

**FINISHING**

The surface of the Nuplex Industrial Terrazzite floor may either be left as a smooth trowel or a slip resistant finish with a special sealer coat to make cleaning easier.

As Nuplex Industrial Terrazzite is hand applied some trowel marks may be visible, however, this feature should fade with use.

**CONTROL JOINT SEALANT**

Expansion/control joints in the substrate re to be continued through the Nuplex Industrial Terrazzite topping. Others at the base of coves etc may be formed in the Industrial Terrazzite topping. A specially selected Nuplex epoxy resin K130 sealant suitable for floor movement control joints is then installed as specified. Refer to Nuplex "Detail Drawings for Nuplex Floor Toppings" technical data.

**INDUSTRIAL TERRAZZITE** (cont'd)

**COVES, DRAINS, UPSTANDS**

The drain lining is finished up onto the concrete floor and the floor topping is brought to the edge of the drain to completely seal the joint, producing a continuous monolithic covering.

Nuplex Industrial Terrazzite flooring system can also be incorporated into the bottom of drains where required. It is recommended that the substrate be accurately formed and have no broken or holed sections.

Coves are normally formed to a 75mm radius although almost any radius can be achieved.

Nuplex Industrial Terrazzite can be installed to upstands to almost any height – note upstands may be slightly darker in colour.

Joints between Industrial Terrazzite and dissimilar materials (stainless steel drains etc) are to be positively sealed using a suitable flexible sealant.

Refer to Nuplex “Detail Drawings for Nuplex Floor Toppings” technical data.

This specification is to be read in conjunction with relevant technical data sheets. If any doubt or confusion exists please contact Nuplex Industries Ltd, Construction Products Division.

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