NUPLEX QUARTZZITE
DECORATIVE NATURAL STONE FLOORING

DESCRIPTION:

Nuplex Quartzzite is an in-situ, trowel applied, attractive, coloured natural quartz stone floor finish. Once applied and cured the Quartzzite in selected design and colour becomes an integral part of the building structure.

Nuplex Quartzzite is a virtually seamless, liquid applied floor topping system and is not installed in tile form. As Nuplex Quartzzite is dimensionally stable control joints are only required where appropriate for the substrate.

Nuplex Quartzzite is available as standard Satin.

TYPICAL USES:

Residential, retail, commercial and light industrial areas, both interior and exterior where appearance, durability and low maintenance are important.

- Entry foyers, Bars, Restuarants
- Fire Stations
- Showrooms
- Supermarkets
- Prisons
- Shops
- Hospitals
- Pharmaceutical

TYPICAL PROPERTIES:

FEATURES	BENEFITS
Solvent Free	Low odour during installation
Natural Quartz aggregates	Hard wearing, won't fade
Slight textured finish	Safe, slip resistant finish, complies with NZS3661 co-efficient of friction
Seamless	Low in-service maintenance cost
Standard custom colours	Limitless design opportunities

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NUPLEX QUARTZZITE (cont'd)

Custom designs	Create patterns, logos and designs
No on site grinding	Quick installation, minimal disruption
Versatile	Use on new and refurbished projects
Light weight	Only 8-10kgs/m²
Thin application	4-5mm thick easy to use with other floor coverings
Adhesion to concrete	1.5mpa minimum
Co-efficient of Friction "Wet"	0.46 (NZS 3661 : 1993)

For more details refer to Nuplex Specification #478 "Nuplex Quartzzite".

LIMITATIONS: Nuplex Quartzzite is not recommended for use in the following areas:

- Application to unstable or defective substrates without approved remedial treatment prior to installation.
- Heavy-duty food processing or industrial environments.
- Over green concrete.
- Over concrete cure or release agents without Nuplex approval.
- Application below 5°C.
- Over ceramic tiles without specific written Nuplex design specification.

SURFACE FINISH AND FLATNESS TOLERANCES: **The finished Nuplex Quartzzite floor shall not vary more than plus or minus 3mm (gradual deviation) over a 3 meter span (U3).**

Often a perfectly acceptable Nuplex Quartzzite floor in a large area with one or more window walls will appear to have variations greater than the above tolerances. The optical illusion is further magnified if the floor has a high polish.

It must be noted that Nuplex Quartzzite will tend to follow the contours of existing substrates. For this reason it is important that the sub floor have the same surface tolerances as the Nuplex Quartzzite to achieve the specified flatness. Non-conforming floors must be Prefilled or levelled (refer to "Materials" section 7.1 and "Substrates" section 7.2 of this specification).

NUPLEX QUARTZZITE (cont'd)

LIGHT COLOURS: Care must be exercised in selecting very light/pastel colours as with any type of flooring light colours may result in a need for higher levels of cleaning etc in order to maintain a high level of appearance.

DURABILITY FOR COMPLIANCE WITH NZ BUILDING CODE: The products, systems and application of Nuplex Quartzzite comply with the requirements of the N.Z. 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, except certain ramps.

SUBSTRATES: Shall be stable and solid.

Note: Ability of new or existing floors to take the loads as a result of the Nuplex Quartzzite must be checked prior to installing.

All control joints junction cracks etc are to be treated in accordance with details section 7.5 of this specification.

Nuplex Industries should be consulted when installing Nuplex Quartzzite on any suspended floor slabs.

NEW CONCRETE

Shall have a surface which has been mechanically trowelled to AS3610:1995 U3/NZ/3114:1987U3 finish or better then lightly broomed after compaction and screeding to assist with mechanical bond. Brooming is not required where preparation is achieved by captive shot blasting or other coarse abrasive methods.

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

A minimum cure time of 28 days.

All falls and levels to be accurately laid into the concrete.

A surface free of cement latence or other contaminants and any roughly screeded or floated patches or areas.

No traces of cure membranes or release agents.

A suitable DPC membrane.

NUPLEX QUARTZZITE (cont'd)

OLD CONCRETE REQUIREMENTS
(refer to substrate, new concrete sections as appropriate)

Remove all contaminants including cement latence, dirt, grease, oil, existing coatings/toppings, unsound substrate etc by captive shot blasting, grinding scabbling, acid etching, chemically washing, hammering etc as appropriate.

Have a moisture content less than 18% or 75% RH.
Have an adequate DPC membrane.
Deep depressions, defects, hollows etc to be repaired or filled using Nuplex Epoxy Prefill system.

WOOD AND OTHER FLOORING
Consult Nuplex Construction Products Division for advice.

INSTALLATION OF NUPLEX QUARTZZITE:

Surecote may only be installed by licensed Nuplex contractors who are "Q Check" certified and members of the Nuplex Contractors Federation Inc.
All materials shall be installed using best trade practice and in accordance with the manufacturers recommendations or instructions. If any doubt exists it is the responsibility of the contractor or client to contact Nuplex Construction Products Division for advice.
Prime the properly prepared floor areas with minimum one coat of Supascreed Primer. Coverage rate and number of coats will vary depending on the porosity of the substrate, Maximum coverage 8m²/litre/coat. Supascreed Primer Resin and Hardener are to be thoroughly mixed in the correct proportions (Part A 2.4 kgs: Part B 4kgs) then diluted using 2.4 litres of clean potable water and remixed.
Wait until Supascreed Primer has turned clear before over coating.
Nuplex Quartzzite must be applied in such a manner to achieve a minimum 4mm thickness. Use screed box, bars or install angle strips as a guide.
Accurately weigh and power mix until homogeneous Nuplex Quartzzite Resin and Hardener in the correct proportions.

Approximate m² coverage:

Supascreed Resin	1.13 kg
Supascreed Hardener	0.38 kg

NUPLEX QUARTZZITE (cont'd)

Add selected Nuplex Coloured Quartzzite aggregates at the ratio:

Nuplex **Quartzzite Fine**	3 kg
Nuplex **Quartzzite Coarse**	6 kg

Selected coloured Nuplex Quartzzite sands are to be box blended to ensure continuity of colour.
Resin, hardener and sand are to be blended in an efficient mixer to ensure all ingredients are homogenously blended.

Apply Nuplex Quartzzite flooring to correctly prepared and sealed substrate using a spreader box in conjunction with hand trowel and/or power float. Ensure the matrix is well compacted and free of ridges or unevenness. Successive mixes must be homogeneously blended together into wet Nuplex Quartzzite mixes. Access to repair wet floor areas during installation can be achieved using crampons or special spiked shoes.

Floor patterns may be achieved with the use of angle strips between sections of the floor etc.
Ensure all finished edges of the Nuplex Quartzzite are supported to avoid damage.
Nuplex Quartzzite may be applied to skirtings, coves and upstands if required with the use of Nuplex Quartzzite Coving Resin and specially formed trowels.
Optional coves and skirtings can be completed as the main floor is installed however they are best installed following installation of the floor. Floors must be protected during cove/skirting installation.

Once cured, hard edge trowel **Nuplex Aqua-Gel** to fill the aggregate pores. Approx coverage 5-8m² / Lt. Dry time is one hour.

Once finished and hardened apply a coat of **Aquaglaze satin** at a spread rate no greater than 8m²/litre/coat. Sealer must be applied only to clean and dry surfaces. Apply a second coat if required.

NUPLEX QUARTZZITE (cont'd)

- Standard use– Nuplex Aqua Glaze or Revathane (gloss)
- Exterior use – Revathane.
- Use slip resistant additive where required – refer to Nuplex Microcells or Revtred.

Optional polish sealer –apply approved maintenance/cleaning system as per manufacturers recommendations.
Polish/sealer is not practical on slip resistant surfaces.

CONTROL AND OTHER JOINTS:

All control and other movement joints are to be bought through the Nuplex Quartzzite finish.
Non-movement joints/cracks can be fibreglass bandaged using 450gsm glass mat and Nuplex Quartzzite resin.

QUALITY ASSURANCE:

A log shall be kept by the licensed Nuplex Quartzzite contractor and made available to Nuplex Industries Ltd at their request. Information to be recorded daily is:

- Material batch numbers used.
- Sequence of mixing, ratios and quantities and formula.
- Substrate moisture content.
- Substrate temperature.
- Ambient temperature.
- Ambient relative humidity.

MAINTENANCE/ CLEANING PROCEDURE

Nuplex Quartzzite floors require no special maintenance or care.
Vacuum or wipe with a damp cloth or mop and neutral detergent
Soiled Surfaces can be cleaned using a neutral solvent-based detergent and light brushing. Finish using a wet vacuum or mop.
Surfaces maybe sealed and polished using approved materials or left untreated. Untreated, heavy wear areas may require re-application of recommended surface Sealer/Topcoat at approximately 5 yearly intervals.

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Optional polish, cleaning products as approved by Nuplex Industries Ltd may be used in conjunction with Nuplex Quartzzite surfaces.

Approved systems

- Advanced International Cleaning Systems NZ Ltd
  Pioneer Equinox System
- S.C. Johnson & Son Pty Ltd
  Signature System
- Multi-Clean
  Prime Shine, Decade 90, Fortress, Stainless

Any damage is to be reported to the Nuplex contractor as soon as practicable for necessary repair.

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