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TRAXITE FINISH NON SLIP FLOORING

TYPE: A two component, resin bound flooring system. It can exhibit colour effects with fine coloured granule sizing. Normally 2-3mm. Being fully bonded to the substrate it will not allow water to creep underneath.

TYPICAL PROPERTIES:

FEATURES

BENEFITS

Resin bound	Durable, chemical resistant, fully bonded to Substrate.
Resin choice	Suitable for many environments
Thin film	Economical, crack resistant
Colour choice	Designer choice
Textured surface	Slip resistant
Single system	Quick to install
Low odour	Non-toxic, non flammable
Granule finish	Helps hide substrate defects
Tough	Abrasion resistant
UV durable	Interior/exterior use

SYSTEM OVERVIEW:

The system consists of a resin base which is applied to a primed substrate. The colour may be contributed by means of coloured aggregates. These aggregates are artificially coloured in a range of bright attractive finishes. They may be blended and applied in any fashion. The aggregates are applied to the wet resin in excess. Once cured, the excess is removed and the bound aggregates are overcoated.

SUGGESTED APPLICATIONS:

- Swimming pool surrounds
- Conservatories
- Shops
- Decorative concrete
- Patios, decks, steps
- Industrial floors
- Renovating older resin floors
- Re-applying non-slip effect

SYSTEM COMPONENTS:

Resins:	Epoxy, polyester, NO odour ZV or vinyl ester
Aggregates:	Decorative Terrazzite coloured granules
Thickness:	2-3mm

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TRAXITE (cont'd)RESIN CHOICE:

1. Epoxy
 - Operating food environments
 - Damp surfaces
2. Polyester
 - Concrete surfaces
 - Rapid cure
 - Economy
3. ZV – zero odour
 - Uses Intafloor resin
 - Rapid cure
 - No odour
 - Interior / exterior
 - Good colour stability
3. Vinyl Ester - Refer VE Traxite datasheet
 - Application to old resin surfaces
 - Thermal shock situations
 - Chemical resistance requirements

NOT RECOMMENDED:

- Application below 10°C.
- Application to incorrectly prepared surfaces.
- Application to uncured concrete (allow 28 days cure).
NB: Epoxies systems will bond to damp (but cured) concrete.
- Application to unsound substrates.
- *For VE the user must refer to the VE Traxite datasheet*

LIMITATIONS:

- Not recommended heavy industrial use (refer Sureshield).
- Traxite will not hide significant surface defects. Overcoating concrete cracks without adequate treatment could result in future cracking or white "stress lines".

SURFACE PREPARATION:**NEW CONCRETE**

Shall have a surface which has been mechanically trowelled to a NZS3114:1987 U3 finish or better. Preparation is usually still required eg: **shot blasting**, acid etching, grinding etc as appropriate. A surface free of cement laitence or other contaminants and any roughly screeded or floated patches or areas.

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

A minimum cure time of 28 days and surface dry.

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

No traces of cure membranes.

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

OLD CONCRETE REQUIREMENTS

Remove all contaminants including cement laitence, dirt, grease, oil, existing coatings/toppings, unsound substrate etc by **shot blasting**, grinding, acid etching etc as appropriate.

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

TRAXITE (cont'd)

It is recommended that a sample of Traxite is applied to the prepared floor for client approval and adhesion testing.

Have suitable vapour resistant membranes beneath the concrete slabs i.e. polythene.

Have a moisture content less than 18%. (or use epoxy system).

Must be sound and stable.

APPLICATION INSTRUCTIONS:

a) **Priming**

Mix and apply the primer as specified to the prepared substrate. Apply at the specified spread rate (5m²/Lt). The primer must be overcoated with the bindercoat within 36 hours.

Epoxy:	Supascreed Primer A & B
Polyester:	STZ Primer & STZ Hardener
ZV:	Intafloor primer
Vinyl Ester:	See VE Traxite Datasheet

b) **Bindercoat**

Colour the resin to match the overall tone of the chips to be applied. Mix and apply the resin and hardener as per specification. Apply at the specified spread rate 0.5-0.7m²/Lt. Apply using roller, fine notched trowel or standard steel trowel. Ensure the correct resin spread rate is applied.

Epoxy:	Supascreed A & B
Polyester:	Traxite Resin & STZ Hardener
ZV:	Intafloor basecoat (ensure correct promotion system and catalyst are used)
Vinyl Ester:	See Traxite VE datasheet

Mix the granules to achieve the desired colours. Ensure they are **uniformly** mixed. Mix by weight.

Granule Options

- Quartzzite Fine or Course (variety of colours)
- J61 sand (very fine)
- 18/36 aggregate (fine)
- 7/14 aggregate (coarse)
- Silicon carbide (heavy duty non-slip).

Pre blend aggregates to get an even effect and colour.

NB: The best option for a Traxite finish is a blend of Quartzzite FINE colours only. A blend of 3:1 fine/ coarse will give a stronger non-slip finish.

TRAXITE (cont'd)

Apply the granules to the applied resin by broadcasting in an even fashion by hand or hopper gun etc. Apply to **excess** so that no wet resin can be **observed**.
 Approx 3-4 kgs/m² of aggregate is broadcast applied
 In small areas, corners, coves etc a mixture of resin and granules may be made and trowelled into place.

Allow to **hard** cure. This generally takes 18-36 hours depending on temperature.

c) Remove the loose granules by sweeping and/or vacuuming. Do **not** allow marking or contamination of the surface at this stage.

d) **TOPCOATING:** Mix and apply the topcoat at this stage. Apply one coat at the specified rate (6m²/Lt) of Revathane. ONE coat will seal the surface; TWO coats will give a gloss effect.

If odours are an issue topcoat with Supascreed A&B (one coat at 6m²/Lt). ZV System use Intafloor topcoat.

Apply by roller. Apply a thin even coat. Do not allow puddling.

A better effect is sometimes obtained by mixing a small amount of the coloured aggregate with the resin system and rolling this mixture onto the surface. This tends to **even-out** any shade differences.

Allow to cure 24-48 hours before foot traffic (dependent on temperature).

e) **Floor Patterning**

Separate various colours at the bindercoat stage by applying the bindercoat resin system up to a tape line. Apply and remove granules as previously described. Once two areas have had colours applied ensure that there is no cross-colour contamination prior to topcoat application.

MAINTENANCE:

Clean the surface using a stiff bristle broom with water and detergent to remove dirt from the non-slip finish.

CHEMICAL RESISTANCE:

Refer chemical resistance chart on the website.

Consult Nuplex Industries Ltd for any technical advice.

www.nuplexconstruction.co.nz

Model Specification:-**Product:** Nuplex Surecote 500**Finish:** Fine / Medium / Heavy Texture
(delete as appropriate)**Thickness:**mm (4mm 5mm 6mm)
(insert as appropriate)**Colour:** Choose colours from Nuplex Quartzzite
(insert as appropriate)**Preparation:** All preparation to be carried out in accordance with
specific Nuplex instructions.**Supplier:** Nuplex Construction Products
Tel 09 580 0883**Products:** Primer: select from data
Body resin: select from data
Aggregates: Nuplex Quartzzite
Topcoat: Revathane**Other Floor coating and aggregate systems**

	Thickness mm	Features	Method
Aquacolour	0.15	Waterbased	Roll
Terratuff	0.2	Solvent, rapid cure	Roll
Surecote 200	1	Satin finish Self smoothing, Filling	Roll or Squeegee
Surecote 200HS	0.8	Satin finish	Roll
Terratuff SLE	1-2	Glossy self levelling	Trowel, roll, Squeegee
Traxite colourfine	2-3	Aggregate finish	Roll & broadcast
Traxite VE	2-3	Aggregate finish, Chemical & heat resistant. Strong substrate bond.	Roll & broadcast
Surecote500	4-5	Aggregate finish	Trowel Slurry & Broadcast
Surecote 500AR	4-5	Aggregate finish, Chemical & heat resistant. More filling ability.	Trowel Slurry & Broadcast