

Technical Data Sheet

Date: August 2014 Replaces: Feb 2014



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. A SAFE floor.
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
- Light duty Industrial floors (use Sureshield for heavy duty 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:	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.
- Not in permanent water areas, eg inside pools.
- ***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. Surface preparation is required eg: **shot blasting**, grinding etc as appropriate.

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, etc

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

Cove preparation

Concrete block walls and floor transitions should be fibreglassed with resin and fiberglass to prevent moisture penetration from the substrate side. This can lead to un-sightly marks on the coving over time.

Form the cove with the aggregate mix and resins as outlined below.

ensure the top of the cove is sealed to prevent water from blockwork seeping out and over the cove.

This will cause lime deposits over time.

TRAXITE (cont'd)

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

IMPORTANT

Have a suitable vapour resistant membrane beneath the concrete slabs eg Preprufe to prevent moisture coming up into the Traxite

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 - 1) **Bindercoat**

Clear resin or Colour (optional 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 1m²/Lt. Apply using roller, fine notched trowel or standard steel trowel. Ensure the correct resin spread rate is applied.

Epoxy: Supascreed A & B

Polyester: Sureshield 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 (variety of colours)
- J61 sand (very fine)
- 18/36 aggregate (fine)

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 good normal mix for , eg pool surrounds is 1 / 1 / 1 Blue / Grey / White Quartzzite fine.

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.

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

b-2) Repeat in full this process (b-1), to achieve a full 3 mm finish with an even surface effect.

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.

Optional : 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.

refer cleaning instructions document. On the web.

Swimming pool structures will often cause lime marks to appear. This is due to water coming from other rooms coming through block walls onto the traxite.

these will need to be periodically treated with acid to clean.

Consult Nuplex Industries Ltd for any technical advice.

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Model Specification:-

Product: Nuplex Traxite

Finish: quartzite fine

Thickness:3.....mm min.
(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

Products: Primer: select from data
Body resin: select from data
Aggregates: Nuplex Quartzzite
Topcoat: Revathane

Traxite in a pool surround application for a safe, non-slip hygienic floor.

