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## VE TRAXITE FINISH Non-Slip Flooring & Re-Aggregating System

**TYPE:** A highly durable vinyl ester resin bound flooring system. It can exhibit colour effects with fine coloured granule sizing. Normally 2-3mm.

VE Traxite exhibits unusually high adhesion and flexibility to give excellent durability, thermal shock resistance and chip resistance.

High shock resistance.

**TYPICAL PROPERTIES:**

**FEATURES**

**BENEFITS**

VE Resin bound  
Thin film  
Colour choice  
Textured surface  
Single system  
Granule finish  
Tough  
stable

Durable, chemical resistant  
crack resistant  
Designer choice  
Slip resistant  
Quick to install  
Helps hide substrate defects  
Abrasion resistant  
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:**

- Industrial floors
- Renovating older resin floors; eg Sureshield, Industrial Terrazzite, Surechem VE
- Re-applying non-slip effect

**SYSTEM COMPONENTS:**

Resins: vinyl ester  
Aggregates: 18/36, Quartzzite coloured granules, silicon carbide.  
Thickness: 2-3mm

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## TRAXITE (cont'd)

### NOT RECOMMENDED:

- Application below 12°C.
- Application to incorrectly prepared surfaces.
- Application to unsound substrates.

### LIMITATIONS:

- Not recommended heavy industrial use on its own (is suitable for refinishing thick floor toppings).
- Traxite will not hide significant surface defects. Overcoating concrete cracks without adequate treatment could result in future cracking or white “stress lines”.
- Must be promoted and then catalysed.

### SURFACE PREPARATION:

#### **NEW CONCRETE**

Preparation: **shot blasting**, 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, ..

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

#### **Old resin Floors:**

Wash with hot water, stiff brushes or waterblasting and detergents. Dry. Then coarse grind or coarse shotblast.

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

New Pails are marked as unpromoted. Nuplex supply the VE in 20 ltr pails with open top lids enabling the Cobalt to be mechanically mixed into the resin base. Buy another catalyst dispenser and mark it for Cobalt use only. The cobalt can be added up to 12 hours prior to use. Always add Cobalt first, mix and then add catalyst. Never mix Cobalt and catalyst. Pre-train staff. The lids are marked as un-promoted - tick or mark once promoted. **Good Trade Practice: - Train staff & mix cobalt and mark all resin in a separate operation on the same day as use. Then take the promoted material to the workface for catalyst addition.**

**0.6%. or 120grams GRAMS COBALT TO ADD PER 20Kg:**

*Check the Cobalt's age and stability by doing a TRIAL prior to work start.* Promote at the correct level, then add a high catalyst % to check that the reaction starts. Even if high catalyst levels are added, unpromoted resins will not cure. This trial can also be used if confusion occurs about Cobalt addition. Be well organised and train staff clearly in the promotion and catalysation processes. Mistakes are costly.

## **APPLICATION** **INSTRUCTIONS:**

### a) **Priming**

For older resin floors priming is not required. Prime with STZ primer on concrete substrates

### 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, normally 1m<sup>2</sup>/Lt. Apply using roller, fine notched trowel or standard steel trowel. Ensure the correct resin spread rate is applied.

MIX: VE Traxite promoted . resin & Surechem VE Hardener (@ 1.5 – 2.5%)

Mix the granules to achieve the desired colours. Ensure they are **uniformly** mixed. Mix by weight. Broadcast the aggregates into the applied resin to excess. Allow to cure and sweep of the surplus prior to topcoating.

### **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.

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/m<sup>2</sup> 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 6-8 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.

## **TRAXITE** (cont'd)

d) **TOPCOATING:** Mix and apply the topcoat at this stage. Apply one coat at the specified rate (6m<sup>2</sup>/Lt) of catalysed VE resin. ONE coat will seal the surface;

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 18 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](http://www.nuplexconstruction.co.nz)