

Technical Data Sheet

Traxite Colourfine NT Decorative Coating System *allnex*

DESCRIPTION:

Traxite Colourfine NT 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.

Traxite Colourfine NT is a virtually seamless, liquid applied floor topping system and is not installed in tile form.

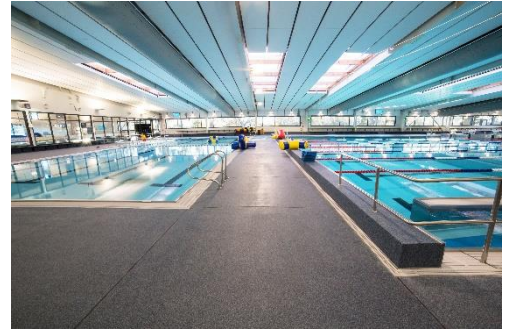
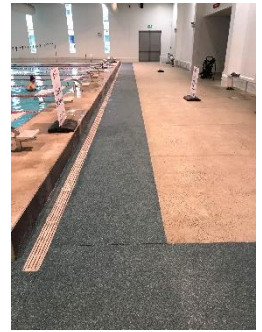
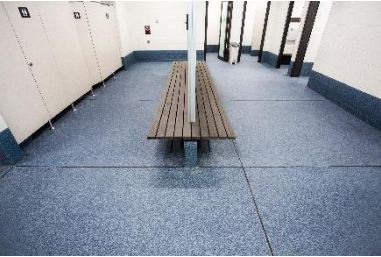
Traxite Colourfine NT is dimensionally stable and as such control joints are only required where appropriate for the substrate.

TYPICAL FEATURES | BENEFITS:



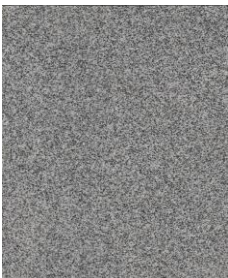
- Polyurethane based resin gives excellent concrete penetration and adhesion.
- Very good abrasion and scuff resistance.
- Tolerant of application to a slightly damp surface.
- Excellent adhesion to properly prepared substrates.
- Easily cleaned.
- Excellent slip resistance.
- Cured Film is non-toxic.
- Not moisture permeable.
- Colour: Available in a wide range of colours.
- Attractive Surface Finish
- Clear coat finish options –
 - Revathane - medium gloss
 - Rapidcote - high gloss option

**** Use Rapidcote Clear Finish Option for Fast Return to Service ****



COLOURS:

Sample selection of colours below. Colours may be blended to suit the requirement of the décor. Refer allnex for colour selection.



PERFORMANCE DATA:

Minimum Thickness	4mm
Minimum Application Temperature: Air	+10°C
Maximum Application Relative Humidity: Air	85%
In-service temperatures: on fully cured system	4mm -10 to +80°C
Chemical Resistance	Resistant to chemical spillage –cured 7 days at 25°C. Refer Chemical resistance chart
Critical Radiant Flux:	5.1 K/m ²
Adhesion to correctly prepared substrate	1.5MPa minimum
Moisture absorption: ASTM D570-63	0.04%
Weight per m ²	4mm - 8.8 kgs
Slip resistance	Co-efficient of Friction 0.63

RECOMMENDED USES:

- Ablution areas.
- Entry Foyers.
- Shops.
- Aquatic Centres.
- Fire Stations.
- Showrooms.
- Bars and Restaurants.
- Sports Changing Facilities.

LIMITATIONS:

- Traxite Colourfine NT will bond to sound concrete but will not bond to weak, friable concrete surfaces
- Concrete shall be cured however Traxite Colourfine NT will bond to damp concrete. Refer to allnex as we may give advice in specific applications.
- Nuthane will bond to concrete that is 7 days old as long as specific concrete design and installation specifications are adhered to. It should be emphasised that success in this application is fully attributable to concrete design.
- Application to unstable or defective substrates without approved remedial treatment prior to installation.
- Traxite Colourfine NT is a slurry material and will not fill excessive floor undulations and/or slopes. Refer: STZ Prefill Document.
- Application over existing coatings/toppings (refer to allnex) or over concrete cure or release agents without allnex approval or over ceramic tiles without specific written allnex design specification.

HEALTH & SAFETY: Refer safety data sheets (SDS).

- Avoid skin contact.
- Provide adequate ventilation.
- Avoid breathing vapour or fumes.
- Wear safety equipment including clothing and breathing apparatus.

SUBSTRATE:

All substrates shall be stable and solid.

Concrete: New

Shall have a surface which has been mechanically trowelled to AS3610:1995 U3/NZ/3114:1987U3 finish.

Concrete shall be cured for a minimum of 28 days prior (refer “**wet or uncured concrete**” below) to the installation of the Traxite Colourfine.

Minimum Compressive Strength at 28 days cure: 25 MPa. (25 N/mm²)

Have a suitable vapour resistant membrane beneath the concrete.

****Note****

Nuthane will bond to damp concrete but take care with weak, uncured concrete.

Please follow this guidance:

Wet and uncured concrete (when less than 28 days)

Allow no further wetting- (rain). The concrete design must be controlled for early cure and low water content. The engineer must ensure that the concrete has: a Low water / cement ratio, is a high strength and rapid setting concrete, contains water reducing agents and early curing agents. It must be certified by the concrete placer that the above has occurred. For the warranty, above, to apply certification of the engineered concrete must occur and allnex and its contractor must see evidence of its formulation and correct installation. Scabble or shot blast the concrete to “open the surface” and use fans to dry the surface for >24hours.

Concrete: Old

Minimum Compressive Strength: 25 MPa. (25 N/mm²)

Have a suitable vapour resistant membrane beneath the concrete.

****Note****

If the substrate is an above grade slab and waterproofing is required to comply with NZBC E3, consult with allnex Construction Products.

QUALITY ASSURANCE:

The allnex Licensed Contractor shall ensure all QA checks have been undertaken prior to the installation process and subsequently during the installation process. The completed documentation must be made available to allnex and the client/clients authorised personnel. The product is to be installed within the required control range to ensure a fully cured hard wearing monolithic floor topping system.

Information to be recorded daily is:

- Concrete sub-base or prefill mix.
- Material batch numbers used.
- Sequence of mixing, ratios and quantities and formula.
- Substrate moisture content & Substrate temperature.
- Ambient temperature | Ambient relative humidity.
- Daily detail of licenced contractors on-site.

PRODUCT PROPERTIES:

Pot Life: ~ Supascreed Primer ~ Nuthane SBM ~ Revathane ~ Rapidcote Clear	+20°C ~75%RH +20°C ~75%RH +20°C ~75%RH +20°C ~50%RH	1 hour 20- 30 minutes 1 hour 6 hours
Touch Dry: ~ Supascreed Primer ~ Nuthane SBM ~ Revathane ~ Rapidcote Clear	+20°C ~75%RH +20°C ~75%RH +20°C ~75%RH +20°C ~50%RH	1 hour 1 hours 6 hours 30 minutes
Hard Dry: ~ Supascreed Primer ~ Nuthane SBM ~ Revathane ~ Rapidcote Clear	+20°C ~75%RH +20°C ~75%RH +20°C ~50%RH +20°C ~50%RH	24-48 hours 3 hours 24+ hours 1+ hours
Recoat time: ~ Revathane ~ Minimum ~ Maximum ~ Rapidcote Clear ~ Minimum ~ Maximum	+20°C ~75%RH +20°C ~75%RH +20°C ~50%RH +20°C ~50%RH	6 hours 18 hours After this time: Refer: Re-glaze technical literature 1 hour 48 hours After this time: Refer: technical literature
Full Cure: ~ Revathane ~ Rapidcote Clear	+20°C ~75%RH +20°C ~50%RH	7 days 24 hours
Thinning: ~ Supascreed Primer ~ Nuthane SBM ~ Revathane ~ Rapidcote Clear	Clean Potable Water Not recommended Not recommended Not recommended	
Clean Up	Solvent HA	
Dangerous Good Class ~ Supascreed Primer ~ Nuthane Resin ~ Nuthane Hardener ~ Nuthane SBM Aggregate ~ Revathane ~ Rapidcote Clear Resin ~ Rapidcote Clear Hardener	Hazard Class 9 Packing Group III Hazard Class 9 Packing Group III Hazard Class 6.1 Packing Group II Not regulated Hazard Class 3 Packing Group III Hazard Class 3 Packing Group III Hazard Class 3 Packing Group III	
Packaging ~ Supascreed Primer ~ Nuthane Resin ~ Nuthane Hardener ~ Nuthane SBM Aggregate ~ Revathane ~ Rapidcote Clear Resin ~ Rapidcote Clear Hardener	6.4 kg Kit 20 kg Metal Pail 20 kg Metal Pail 15kg Plastic Lined Paper Bags 20 litre Metal Pail 9.8 kg Metal Pail 1 kg Metal Tin	
Shelf life	12 months from date of manufacture. (After this period consult with allnex)	

SURFACE PREPARATION:

Concrete:

Prepare concrete by mechanical abrasion method to:- **CSP4-5**. (Concrete Surface Profile Scale - International Concrete Repair Institute)
See technical literature: - http://www.allnexconstruction.com/pdf/Floor_Preparation_Requirements.pdf
Remove all concrete curing agents, contaminants and any other material likely to affect the adhesion of the Traxite Colourfine System.
Do not apply over existing coating without checking compatibility, Over-coating is not likely to be successful without strong, coarse abrasion.

Prefill any large divots with allnex K125 or Epoxy Fairing Cream and diamond grind to remove any highpoints or contaminants.

COVES:

Where required:

See technical literature – Details: - http://www.allnexconstruction.com/pdf/Details_resin-floor-toppings.pdf

Install Coves:

- Small Pencil Coves: Surecote System 500 | Supascreed
- Other Coves: Surecote System 500 | Supascreed

Install allnex cove upper termination metal strips: **5.2mm or 9.2mm rebated strip**.

Use a rebated wall cut if the coving strip cannot be used.

Install fibreglass CSM cloth in floor/wall internal junctions. (Required on surfaces other than Concrete upstands)

STZ PREFILL: (for adding falls, slope modification and floor angles)

Where required:

STZ prefill system types: See STZ technical literature. http://www.allnexconstruction.com/pdf/stz_prefill.pdf

The falls must be specified pre-tender. (Traxite Colourfine is a medium build floor coating and prefill may involve significant extra materials).

The quantities of materials required to raise the floor height at wall perimeters is often underestimated. To do this may involve significant extra costs and should be discussed and agreed. It is a very common for STZ prefill system to be used under Traxite Colourfine NT to create falls to drains and other filling applications. Normally for new work falls are laid in the concrete and fall to drains. However, in refurbishment the drains and falls are incorrect. Sometimes new drains are installed. The Prefill create falls of at least 1: 50 to ensure no ponding water. (1:100 will fall but will have standing water in places).

INSTALLATION:

Primer:

Use Supascreed Primer (**Solvent Free**) at 5-6m²/Lt. Apply evenly. Allow to fully dry before application of the Surecote System 500 Basecoat.

Alternatively, dilute Surecote System 500 with Methylated Spirits (10 parts to 1 part and use that as a primer).

****Note****

Whilst primer is still wet broadcast sparingly the design aggregate into the wet surface.

Allow to fully dry before application of the Traxite Colourfine NT Basecoat.

TRAXITE COLOURFINE NT MIXING:

Mix Ratio: By weight

Mixing:

Measure correct quantities of Nuthane Resin (Part A) and Nutahne Hardener (Part B) to a suitable container. Power mix at low speed (approximately 300rpm) adding the Nuthane SBM aggregates, ensuring compounds are homogeneously blended, and the colour is uniform. Scrape the pail sides with a long broad-knife and then mix again Mix slowly to avoid air entrapment.

Note: ensure no unmixed materials remain on the sides, rims or lips of the containers.

APPLICATION METHOD:

Pin Rake | Trowel.

The Traxite Colourfine NT must be applied in such a manner to achieve a minimum 4mm completed thickness.

Ensure all finished edges of the Traxite Colourfine NT are supported to avoid damage. Traxite Colourfine NT may be applied to skirting's, coves and upstands if required with the use of specially formed trowels.

Floors must be protected during cove/skirting installation.

TOPCOATS:

Option #1

*Revathane Glaze Topcoats*1st Coat at 2m²/litre2nd Coat at 4m²/litre

Option #2 –

*Rapidcote Glaze Topcoats – Fast Cure – Rapid return to service*1st Coat at 2m²/litre2nd Coat at 4m²/litre******Caution******

Ensure glaze coats have been applied in accordance with the Relevant Technical Literature

JOINTS:

All concrete control and construction joints should be carried through the Traxite Colourfine NT using allnex K130 Epoxy or Bostik Seal n Flex sealant.

MAINTENANCE:**Repairs:**

Chemically clean.

Mechanically abrade surface.

Repair any divots with allnex K125 or Fairing Cream.

Apply Traxite Colourfine NT as per “Installation instructions”.

CLEANING:Mopping is **not** adequate for removal of dirt and grime from the surface profile of the Traxite Colourfine NT . We therefore recommend the use of a soft bristled broom in conjunction with the cleaning solution. Or on larger areas a mechanical scrubbing machine.****** Note******

Ensure all detergent materials, dirt etc. is thoroughly rinsed from the surface following cleaning.

FIXING OF PLANT AND MACHINERY:

Mechanical fixings into the substrate must be resin fixed. This is to ensure that there is no water migration into the substrate.

Conventional expanding plugs, screws or anchors are not an acceptable fixing method.**CHEMICAL RESISTANCE:**

Chemical spillages should be cleaned up immediately.

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Replaces: Aug 2019

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Customer Service: 0508-882-288 cs.constructionnz@allnex.comwww.allnexconstruction.comThe logo for Allnex, featuring the word "allnex" in a bold, lowercase, sans-serif font. The letters are white with a blue outline. Above the letters "i", "l", "l", "e", and "x", there are horizontal bars in blue, green, and red respectively.

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