

TRAXITE VE

Resin Flooring Resurfacing System

DESCRIPTION:

Traxite VE is a non-slip, in-situ, trowel applied system designed to provide a hard wearing, non-slip floor surface and for the reinstatement, upgrading of existing Sureshield | Industrial Terrazzite and Surechem VE.

The system consists of a resin base which is applied to a primed substrate. The chosen aggregates are applied to the wet resin in excess. Once cured, the excess is removed, and the bound aggregates are over-coated.

The colour may be contributed to by means of coloured aggregates. These aggregates are artificially coloured in a range of bright attractive finishes. They may be blended as required.

TYPICAL FEATURES | BENEFITS:

- Rapid Cure: Full system may be installed within an 8hr period.
- Excellent abrasion resistance (6 times that of basalt concrete).
- Excellent impact resistance:
- Cured Film is non-toxic.
- Suitable for use in dry or wet situations including ramps.
- Traxite VE has been specifically designed to provide excellent all-round chemical resistance at both end of the pH scale i.e. concentrate acid and alkali compounds.
- Chemical resistance and general physical properties can be improved by **POST CURE TREATMENT**.
- Excellent slip resistance. Specification is needed of the degree required *Note* Please read detail within
- Good resistance to thermal shock. When cured, will perform at all normal in-service temperature ranges.
- Will not support bacteria or fungal growth. **Contains STERISHIELD to retard microbial growth.**
- Good weathering resistance. May chalk and exhibit slight discolouration when subjected to prolonged UV exposure. This will, however, not detract from its general durability and chemical resistance.
- Excellent chemical resistance.
- Excellent adhesion to properly prepared substrate.
- Easily cleaned. **Waterblast resistant.**
- Not moisture permeable.

COLOUR OPTIONS:

- Traxite VE Resin may be tinted to closely match the colour of the natural aggregates that are generally used in Sureshield | Industrial Terrazzite & Surechem VE Flooring Systems -
The tinting of the Primer and Basecoat Resins only will even out the overall colour of the floor.

Note

*The Top-coats are not generally tinted and if done will detract from the overall appearance of the finished floor.
(Refer: DGL Bondlast Construction Products for advice if requiring a tinted Top-Coat Option)*

- The clear resin may also be used with natural coloured aggregate or coloured quartz.
The colour may be contributed to by means of coloured aggregates. These aggregates are artificially coloured in a range of bright attractive finishes. They may be blended as required.

DGL BONDLAST CONSTRUCTION PRODUCTS SPECIFICATION:

These are specialist systems for specific high chemical resistant requirements and advice should be sought from DGL Bondlast Construction Products for a specific recommendation for your installation.

Before



After



PERFORMANCE DATA:

Properties	Values	
Minimum Thickness:	3mm	
Minimum Application Temperature: Air	+10°C	
Maximum Application Relative Humidity: Air	85%	
Heat Resistance: Dry	+150°C <i>Intermittent exposure</i>	
In-service Temperatures - Wet : on fully cured system @ 4mm	-50 to +82°C <i>Note: temperature resistance is lowered when combined with certain chemicals & temperatures</i>	
Chemical Resistance:	Resistant to chemical spillage –cured 7 days at +25°C. <i>Refer: Chemical Resistance chart.</i>	
Adhesion to correctly prepared substrate:	1.5MPa minimum – Concrete Failure GB2567-2008. 2.77(KJ/m2). - Concrete failure	
Flexural strength:	130MPa	
Flexural modulus:	3.3 GPa	
Tensile strength:	76MPa	
Slip resistance:	R13 <i>Refer: Slip resistance chart</i>	
Moisture Absorption: ASTM D570-63	0.04%	
Weight per m ²	3mm – 4.4kg	
Hard Dry:	+25°C ~ 75%RH	3+ hours
Recoat:	+25°C ~ 75%RH	1 hour 24 hours* <i>*After 24 hours: Requires special preparation</i>
Light Foot Traffic: Finished System	+25°C ~ 75%RH	5+ hours minimum
Full Use: Finished System	+25°C ~ 75%RH	18 hrs.
Full Chemical Resistance: Finished System	+25°C ~ 75%RH	7 days

RECOMMENDED USES:

For the Rejuvenation and Reinstatement of the Non-slip Profile in many areas where a high degree of chemical, mechanical and slip-resistance is of prime importance:

- Beverage Processing: Bottling Plants | Breweries | Fruit Juice | Wine etc.
- Dairy Factory Floors. CIP areas | Main Process Halls/Rooms | Tanker Bays
- Seafood Processing: Wet Fish | Shellfish | Freezers | Chillers | Cool Stores etc.
- Interior/exterior use.
- Suitable for use in dry or wet situations including ramps.

LIMITATIONS:

- Application to damp surfaces or when surface dew point has been reached.
- Application to unstable or defective substrates without approved remedial treatment prior to installation.
- Application below +10°C.
- Application where fumes may contaminate adjacent foodstuffs.**(This only applies in the installation stage - up to 3 hrs after installation)**
(Refer: to DGL Bondlast Surecote 500AR for odour free installations).
- Application over existing coatings/toppings other than Sureshield | Industrial Terrazzite and Surechem VE.
- Ceramic tiles without a specific written DGL Bondlast Construction Products design specification.
- Refer to Traxite VE chemical resistance data.
- Whitening/Blooming: Traxite VE surfaces will go white if exposed to water or dew point condensation from walls before it is fully cured. Take great caution that working areas are protected from water or condensation during the curing Period. This may be cleaned off:-
Refer: cleaning / maintenance documents.
- If the substrate is an above grade slab and additional waterproofing is required, then tank the floor and covered upstands with a layer of 450gsm CSM fibreglass. This will provide a seamless waterproofing layer.

SURFACE FINISH DESIGN:

System Type	Description	Description	CF Rating	SRV Rating	R Rating	Non-Slip
	Installation Type	Finish Type	NZ/AS3661.1 1993	AS/NZS 4586		Application Rates
Non-Slip Class 2	<i>Applied with the addition of:-</i>	Medium / Heavy Duty Non-slip				
	~ IM 18/40	Fine – medium silica	0.73	64	R13	<i>Refer: Traxite VE Method Statement for application rates of the chosen Topcoats. The number of Topcoats determine the final non-slip resistance. Minimum of Two (2) Topcoats required.</i>
	~ Walton Park 18/36	Medium-round silica	0.73	64		
	~ Silver Grey Grit	Medium- angular garnet	0.73	64		
	~ Walton Park 7/14	Coarse- round silica	0.75	65		
	~ Aluminium Oxide 20 grit	Medium - sharp/angular	0.75	65		
	~ Aluminium Oxide 16 grit	Coarse- sharp/angular	0.75	65		
	~ Aluminium Oxide 12 grit	Very coarse -sharp/angular	0.75	65		

CHEMICAL RESISTANCE CHART:

Test Procedure	Observation	Results
Total immersion.	Checked for chemical attack and hardness throughout the testing period.	Taken after 3 weeks exposure.

Test Media	Concentration	Surechem VE Traxite with Surechem VE Topcoat	Test Media	Concentration	Surechem VE Traxite with Surechem VE Topcoat
ACIDS			ALKALIS		
Hydrochloric Acid	37%	U	Potassium Hydroxide	30%	A
Sulphuric Acid	70%	U	Caustic Soda	50%	U
Acetic Acid	70%	M	Sodium Hypochlorite		Refer DGL Bondlast Construction Products
Hydrofluoric Acid	20%	EF <i>may attack aggregate</i>			
Nitric Acid	30%	U	SOLVENTS		
Nitric Acid	40%	EF*	Ethanol		A
Citric Acid	SAT SOLN	U	Toluene		A
Lactic Acid	All	U	Acetone		D
Phosphoric Acid	85%	U	Isopropanol		U
Oxalic Acid	SAT	U			
Hydrogen Peroxide	35%	U			
Hydrogen Sulphide	All	U			
PETROCHEMICALS			DISINFECTANTS CLEANERS		
Kerosene		U	Detergent (DET 18)	100%	U
			Bleach Sod Hyd Cl	2.5%	M
			MEKP – M50		A
OTHERS			SALT SOLUTION		
Sugar Syrup	30%	U	Brine	SAT SOLN	U
Distilled Water		U			

LEGEND:

U	Unaffected <i>(i.e. after 3-week exposure the samples have not changed)</i>	M	Marked <i>(Short term exposure, the test media will leave a mark on the sample)</i>
A	Attacked <i>(Short- or long-term exposure, the mechanical properties will deteriorate)</i>	D	Destroy <i>(Short- or long-term exposure, damage will occur)</i>
EF	Evaluate Further		

Solutions are Aqueous unless otherwise stated

Note

Variables which may under extreme conditions, influence the chemical or corrosion resistance are:

- Temperature of chemical concentration.
- Intermittent or continuous contact.
- Application in adverse conditions.
- Risks of evaporation from spillage causing concentration to rise adversely.

SUBSTRATE: – Preparation

All substrates shall be stable and solid.

Note

All control joints, junctions, cracks in the substrate etc. are to be properly treated.

EXISTING RESIN FLOORING:

- Remove all contaminants and any other material likely to affect the adhesion of the Traxite VE
- Prepare the existing Resin Floor by mechanical abrasion method to CSP4 -5
- Ensure the floor is dry and free from Dew Point

Note* *DGL Bondlast Construction Products should be consulted when installing Traxite VE to any Resin Flooring on suspended floor slabs.*

COVES:

Coves are to remain smooth.

RESIN FLOORING DETAILS

Refer: Typical Resin Flooring Details Document.

FALLS TO WASTES:

STZ Prefill system:- for adding falls | slope modification and floor angles.

STZ Prefill Types: Refer: STZ Prefill Technical Literature.

Normally the falls will be existing, however if additional fall is required then:-

The falls must be specified pre-tender. *(Traxite VE is a thin set coating system and prefill may involve significant extra materials).*

The Prefill can be installed to any thickness to create falls.

If the project is a food processing facility, ensure that your requirements fall within the guidelines of current legislation.

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 quite common for STZ prefill system to be used under Traxite VE to create falls to drains and other filling applications.

Floor Fall Definitions	
1:50	Liquids will free run to drainage
1:80	Liquids will migrate to drainage
1:100	Some ponding of liquids will occur, squeegee to drainage will be required.

JOINTS:

All concrete control and construction joints should be carried through the Traxite VE.

Jointing Options	
Control Construction Joints	Cold Joints Non-Movement Joints
K130 or Sabrebond SMP60	K130 or Sabrebond SMP60

QUALITY ASSURANCE:

The DGL Bondlast Approved Applicator 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 DGL Bondlast Construction Products, 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 coating system.

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

CLEANING & MAINTENANCE:**Cleaning:**

Refer: Cleaning Maintenance Document

Repairs:

Can be undertaken with further new Traxite VE applied directly.

Resurfacing:

Can be undertaken with further new Traxite VE.

Refer: DGL Bondlast Construction Products for specific advice

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.

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

- Applicators are to comply with all current legislation when using this product.

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DGL Bondlast Construction Products, a Division of DGL Manufacturing NZ

Auckland Office: 24-28 Lady Ruby Drive, East Tamaki, phone: 09-267-2772

Auckland Trade Store: 308 Church Street, Penrose, phone: 09-583-6258.

Hamilton Trade Store: 18 Somerset Street, Frankton, phone: 07-847-8658.

Wellington Trade Store: Unit 9A, 4 Glover Street, Ngauranga Gorge, phone: 04-240-0305.

Christchurch Trade Store: 112 Carlyle Street, Sydenham, phone: 03-366-6802.

Customer Service: 0508-882-288 sales.bondlast.cp@dglgroup.com

Website: www.bondlastconstruction.com

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