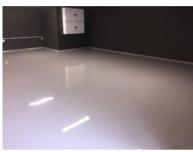
Technical Data Sheet

Surecote 200 Vessca SLE Hi-Build Epoxy Coating System

DESCRIPTION:

Surecote 200 *Vessca* SLE is a two pack, hi-build epoxy coating system suitable for application to a wide variety of floor substrates; usually concrete but including timber & steel.

Surecote 200 Vessca SLE is applied as a smooth hygienic high-build system.

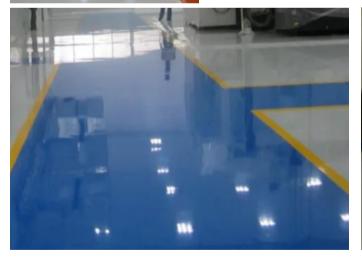


TYPICAL FEATURES | BENEFITS:

- Solvent free, no odour.
- Good filling properties to smooth out pitted floors to give an even appearance.
- Applied as a full SLE system 3-4mm.
- Very good abrasion and scuff resistance.
- Good flow properties to help even out imperfections.
- Tolerant of application to a slightly damp surface.
- Excellent resistance to a wide variety of chemicals and petroleum products Refer: to chemical resistance chart.



Surecote 200 **Vessca** SLE combines economy with film thickness to achieve that desired monolithic appearance.





SURECOTE 200 VESSCA SLE SURFACE FINISH:

Surecote 200 *Vessca* SLE is applied as a smooth surface application. For other surface finishes Refer: Surecote 200 or for specific advice. *Refer: allnex Construction Products.*

COLOURS:

Surecote 200 *Vessca* SLE stocked colour is N35 light Grey. Surecote 200 *Vessca* SLE is available in many colours in the following charts: *BS5252: Colour Chart | AS2700: Colour Chart | RAL*: colours & special colours are also available.

PERFORMANCE DATA:

Properties	Values				
Minimum Thickness:	3mm				
Minimum Application Temperature: Air	+10°C				
Maximum Application Relative Humidity: Air		85%			
In-service temperatures - wet : on fully cured system		⁻ 20 to ⁺ 55°C			
Critical Radiant Flux:		9.1Kw	/m².		
Chemical Resistance	Resistant to chemical spillage –cured 7 days at ⁺25ºC. Refer: Chemical resistance chart				
Adhesion to correctly prepared substrate	1.5MPa minimum – Concrete Failure GB2567-2008. 2.77(KJ/m2) Concrete failure				
Impact Resistance: AS 1580.406.1	Impact Energy (J) 6.9				
Heat resistant	*55°C				
Slip resistance	Refer: Slip resistance chart				
Solids Content	100%				
VOC Emission:		114 g/L			
SG kg/litre	Approx. 1.6				
Weight per m ²	Per 1mm thickness.	1.6kg			
Touch Dry		⁺14ºC ~ 75%RH ⁺25ºC ~ 75%RH	5.2 hours 3 hours		
Recoat Time	~ Minimum ~ Maximum	+25°C ~ 70%RH	16 hours 48 hours		
Full Use		+25°C ~ 70%RH	> 48hours		

RECOMMENDED USES:

• Ablution areas.

- Bulk retail.
- Construction and Mining Industry.
- Chemical and Oil Industry.
- Food processing facilities.
- Hospitality.
- Healthcare.
- Pharmaceutical and Cosmetics.

- Refineries.
- Residential garages and workshops.
- Retail and display areas: Vehicle showrooms | studios
- Sewerage treatment plants.
- Silos.
- Pulp and Paper mills
- Warehouses.
- Clean rooms: seamless smooth hygienic floors
- If the substrate is an above grade slab and additional waterproofing is required, then tank the floor and coved upstands with a layer of 450gsm CSM fibreglass. This will provide a seamless waterproofing layer.

LIMITATIONS:

- Application below ⁺10⁰C. This will impede the flow, application and curing.
- Application to green (uncured) concrete. Will tolerate damp concrete.
- Application to unsound substrates.
- Application to incorrectly prepared surfaces.
- Weathering/UV -
 - * Some chalking will occur in time but will maintain good film integrity.
 * Some yellowing will occur.

CHEMICAL RESISTANCE:

The following chart shows a representation of the chemical resistance of some of the colours available. Resistant to chemical spillage –cured 7 days at 25° C.

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.

Test Procedure	Observation	Results
Spot Testing.	Checked for chemical attack and hardness	Taken at the times specified.
	throughout the testing period.	

Test Media	Concentration Time Lapse		Test Media	Concentration	Time Lapse				
		1	3	6			1	3	6
		Hour	hours	Hours			Hour	Hours	Hours
ACIDS					ALKALIS				
Hydrochloric Acid	10%	Ν	SM	SM	Potassium Hydroxide	30%	N	Ν	N
Sulphuric Acid	10%	N	SM	SM	Caustic Soda	50%	N	Ν	Ν
Sulphuric Acid	25%	Ν	SM	SM					
Acetic Acid	10%	SM	MH	MH					
Acetic Acid	50%	MH	MH	MH	SOLVENTS				
Nitric Acid	10%	SM	MH	MH	Toluene		Ν		
Citric Acid	10%	Ν	Ν	N	Acetone		N		
Lactic Acid	90%	MH	MH	MH	Isopropanol		SM		
Phosphoric Acid	30%	SM	MH	MH	Methanol		SM		
PETROCHEMICALS					DISINFECTANTS &				
Kerosene		N	N	N	CLEANERS Ammonia Solution	25%	N	N	N
Industrial Gear Lubricant (Mobil 632)		N	N	N	Iodine (Betadine Solution)	10%	REC	REC	REC
Petrol 91 Unleaded		N			Bleach	2.15%	N	N	N
Fuel Oil – Diesel Oil		N	N	N	Dishwashing Liquid	100%	N	N	N
Hydraulic Fluid (Hyspin AWS646 - Castrol Oil)		N	N	N	MEKP – M50		N	N	N
OTHERS					SALT SOLUTION				
Food Emulsion (Milk)		Ν	N	N	Brine	20%	N	Ν	N

LEGEND:

Ν	No mark No Effect	SM	Slightly Marked
D	Damaged Blister	MH	Marked Heavily
REC	Recovered	EF	Evaluate Further

REC- Recovered (there was something there after removing the chemical, but it recovered quickly to undetectable)

NON-SLIP:- floor definitions:

The contractor shall ensure that the smooth surface finish design is suitable in all installation zones and is agreed with the client. (*Samples to be supplied and agreed prior to start of the contract*)

Туре	Description	Description	CF Rating	SRV Rating	R Rating	Examples
	Installation Type	Finish Type	NZ/AS 3661.1 1993	AS/NZS 4586		Completely homogeneous floor areas
Type SLE	Gauging Trowel Application	Smooth	0.46	41	R11	Dry areas

SUBSTRATE: - Preparation

All substrates shall be stable and solid.

Note

The ability of new or existing floors to take the loads as a result of the allnex Surecote 200 **Vessca** SLE must be checked prior to installing. All control joints junction cracks in the substrate etc. are to be properly treated.

CONCRETE:

Shall have a surface which has been mechanically trowelled to AS3610:1995 U3/NZ/3114:1987U3 finish. A minimum compressive strength of 25MPa at 28 days cure. A minimum of 28 days prior to the installation of Surecote 200 **Vessca** SLE. The substrate needs to have a nominal pull-off strength of a min 1.5 N/mm2. The moisture content shall be less than 75% RH. *(Refer: allnex Bulletin on application options for wet or uncured concrete).*

PLYWOOD | TIMBER | FIBRECEMENT

Refer: Surecote 200 Vessca SLE Method Statement / Specification

COVE TOPS:

Install allnex cove upper termination metal strips: 5.2mm or 9.2mm rebated strip.(Refer: Typical Resin Flooring Details Document)



Cove Strip 5.2mm



Cove Strip Rebated 9.2mm

If the coving strip cannot be used refer to the Resin Flooring Details Document for options.

RESIN FLOORING DETAILS

Refer: Typical Resin Flooring Details Document

FALLS TO WASTES:

Generally Surecote 200 *Vessca* SLE would not be used in a sloped floor to drain environment (*i.e. a wet processing area*) In these situations please contact:- *allnex Construction Products for specific advice*.

JOINTS:

All concrete control and construction joints should be carried through the Surecote 200 *Vessca* SLE.

Jointing Options					
Control Construction Joints	Cold Joints Non-Movement Joints				
allnex Sabrebond SMP60	allnex Sabrebond SMP60				

QUALITY ASSURANCE:

The allnex approved Applicator shall ensure all QA checks have been undertaken <u>prior</u> 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 coating system. Information to be recorded daily is:

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

CLEANING & MAINTENANCE:

Cleaning: Refer: Cleaning Maintenance Document

Repairs:

Can be undertaken with further new Surecote 200 Vessca SLE applied directly.

Resurfacing:

• Re-surfacing with further coats of Surecote 200 Vessca SLE.

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 <u>are not</u> an acceptable fixing method.

PRODUCER STATEMENT:

allnex Construction Products state that:-Surecote 200 *Vessca* SLE is compliant with:

- HACCP International Certification.
- E3 Internal water 3.1.1e.
- Complies with CLEANROOM and controlled environment:-AS/NZS ISO 14644.4: 2002 section E.2.1.4 Floors:-
 - That the floor shall be non-porous, slip resistant, abrasion resistant and resistant to chemicals.
 - That they shall support static and dynamic loads.
 - Complies with fire ratings.

CERTIFICATION:



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

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

Date: Oct 2023 Replaces: Feb 2023

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