

# Technical Data Sheet



## STZ Topcoat – Sureshield Topcoat

### DESCRIPTION:

STZ Topcoat is a polyester topcoat specifically designed to seal and provide an additional wear surface for the Sureshield.

### TYPICAL FEATURES | BENEFITS:

- Rapid Cure
- Cured Film is non-toxic.
- Will not support bacteria or fungal growth. Contains STERISHIELD to retard microbial growth.
- HACCP approved manufacturing process as part of the Sureshield system.
- Cleanroom Standard compliant as part of the Sureshield System AS/NZS ISO14644.4 2002.
- Excellent adhesion to Sureshield
- Free of Bisphenol-A.

### PERFORMANCE DATA:

Minimum Application Temperature: Air.	+5°C
Maximum Application Relative Humidity: Air.	85%

### LIMITATIONS:

- Application to uncured Sureshield.
- Application where fumes may contaminate adjacent foodstuffs.
- Application below +5C.
- Application over existing coatings/toppings (refer to allnex)

**\*\*Note\*\***

This only applies in the installation stage (up to 3 hrs after installation).

### SURESHIELD: – Preparation

- Sureshield must be cured.
- All excess aggregates must be removed.

### 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 system.

Information to be recorded daily is:

- Material batch numbers used.
- Substrate temperature.
- Daily detail of licenced contractors on-site.
- Sequence of mixing, ratios and quantities and formula.
- Ambient temperature | Ambient relative humidity.

### PIGMENT ADDITION: (where required)

The STZ topcoat may be pigmented as required to match the colour of coloured Sureshield floor.

Generally the addition of the pigment will be between 3.66% and 5% by weight on the volume of STZ Topcoat.

**\*\*\* Note\*\*\***

The maximum addition rate for Pigment is 5% by weight

Ensure the pigment is thoroughly dispersed into the STZ Topcoat

Resin	Pigment 3.66%	Pigment 4..0%	Pigment 4.5%	Pigment 5.0 %
5.0 kg	183 grams	200 grams	225 grams	250 grams
10.0 kg	366 grams	400 grams	450 grams	500 grams
15.0 kg	549 grams	600grams	675 grams	750 gram
20.0 kg	732 grams	800 grams	900 grams	1000 grams

## STZ TOPCOAT APPLICATION

- Thoroughly mix the STZ Topcoat in the pail prior to the removal from any material from the pail or the addition of catalyst.
- STZ Topcoat and STZ Hardener are to be thoroughly mixed in the correct proportions (1-3% on STZ Topcoat weight).

\*\*\*Note Well\*\*\*

The addition of less than 1% or in excess of 3% will cause incorrect curing of the STZ Topcoat

\*\*Note\*\*

Coverage rate and number of coats will vary depending on the chosen slip-resistant properties of the Sureshield. (Refer: Non- Slip Floor Definitions below for coverage rates)

### NON-SLIP:- floor definitions:

The contractor shall ensure that the surface finish in all zones is agreed with the client. (Samples to be supplied and agreed prior to installation).

allnex Rating	Description	CF Rating NZ/AS3661.1:1993	Examples Completely homogeneous floor	Topcoat Requirements	
				Number of coats	Spread Rate per litre
NR1	Smooth –steel trowel floated.	0.46	Dry areas e.g. Bakeries	1	6m <sup>2</sup>
NR2	Non-slip & Hard-Wearing – glass float.	0.56	Light-Wet areas e.g. Heavy duty bakery.	1	5m <sup>2</sup>
NR3.A	Medium duty non-slip – Glass float finish and the 18/36 non-slip aggregate is broadcast into the wet surface. Apply a Medium Sprinkle with areas of no non-slip. Follow this with roller applied topcoat. This gives a good combination of Non-slip and cleanability.	0.73 R 11	Continually Wet areas with non-slip required. e.g. Light duty Meat, fish. Wet area Bakery.	2 1 <sup>st</sup> Coat 2 <sup>nd</sup> Coat	4.00m <sup>2</sup> 6.00m <sup>2</sup>
NR3.B	Heavy duty non-slip – glass float and the 18/36 non-slip aggregate is broadcast into the wet surface. This is a full spread applied heavily. Follow this with roller applied topcoat.	R12	Heavy duty e.g. Butchery, abattoirs Fish Processing	2 1 <sup>st</sup> Coat 2 <sup>nd</sup> Coat	2.5m <sup>2</sup> 4.00m <sup>2</sup>
NR4	Very sharp non-slip: glass float and is broadcast with 18/36 mixed 50/50 with Silicon carbide non-slip aggregate into the wet surface. Follow this with roller applied topcoat.	R13	Heavy duty processing with extra slip hazards.	2 1 <sup>st</sup> Coat 2 <sup>nd</sup> Coat	2.5m <sup>2</sup> 4.00m <sup>2</sup>
NR5	Specialised very heavy duty nonslip. Refer to allnex for a specification.				

### THINNING:

May be thinned 5% with Styrene Monomer

### PRODUCT PROPERTIES:

Pot Life Dependent of addition levels of hardener	25°C -50%RH	20 – 30 minutes
Hard Dry	25°C	3 hours
Recoat	Anytime within 24 hours. After 24 hours: Severe mechanical abrasion	
SG kg/litre	1.08	
Thinning	Styrene Monomer	
Clean up	Acetone	
Dangerous Good Class	~ STZ Topcoat ~ STZ Hardener	Hazard Class 3   Packing Group III Hazard Class 5.2
Packaging	~ STZ Topcoat ~ STZ Hardener	20 kg Open top metal container 3.6 kg Plastic Bottle
Shelf life	6 months from date of manufacture (After this period consult with allnex)	

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

- Overalls are recommended when using this product. Wear gloves if this suits the user as the material will bond strongly to skin. It has not been found to be dermatitis causing.
- Fumes may be cloying in enclosed areas. The use of fans to provide positive forced air draft and/or extraction is recommended.
- The levels of fumes have been shown to be well below recommended levels. See our data on emissions on our web bulletin board. Flammable 3C. Erect “No Smoking” signs. No welding or naked flames permitted during installation. Have fire extinguishers readily Available.

**HARDENER ADDITION TABLE**

Resin	Catalyst 1%	Catalyst 1.5%	Catalyst 2%	Catalyst 2.5%	Catalyst 3%
1kg	10 grams	15 grams	20 grams	25 grams	30 grams
1.5kg	15 grams	22.5 grams	30 grams	37.5 grams	45 grams
2.0kg	20 grams	30 grams	40 grams	50 grams	60 grams
2.5kg	25 grams	37.5 grams	50 grams	62.5 grams	75 grams
3.0 kg	30 grams	45 grams	60 grams	75 grams	90 grams
3.5 kg	35 grams	52.5 gram	70 grams	87.5 grams	105 grams
4.0kg	40 grams	60 grams	80 grams	100 grams	120 grams
4.5kg	45 grams	67.5 grams	90 grams	112.5 grams	135 grams
5.0kg	50 grams	75 grams	100 grams	125 grams	150 grams
5.5kg	55 grams	82.5 grams	110 grams	137.5 grams	165 grams
6.0kg	60 grams	90 grams	120 grams	150 grams	180 grams
6.5kg	65 grams	97.5 grams	130 grams	162.5 grams	195 grams
7.0kg	70 grams	105 grams	140 grams	175 grams	210 grams
7.5kg	75 grams	112.5 grams	150 grams	187.5 grams	225 grams
8.0kg	80 grams	120 grams	160 grams	200 grams	240 grams
8.5kg	85 grams	127.5 grams	170 grams	212.5 grams	255 grams
9.0kg	90 grams	135 grams	180 grams	225 grams	270 grams
9.5kg	95 grams	142.5 grams	190 grams	237.5 grams	285 grams
10.0kg	100 grams	150 grams	200 grams	250 grams	300 grams
10.5kg	105 grams	157.5 grams	210 grams	262.5 grams	315 grams
11.0kg	110 grams	165 grams	220 grams	275 grams	330 grams
11.5kg	115 grams	172.5 grams	230 grams	287.5 grams	345 grams
12.0kg	120 grams	180 grams	240 grams	300 grams	360 grams
12.5kg	125 grams	187.5 grams	250 grams	312.5 grams	375 grams
13.0kg	130 grams	195 grams	260 grams	325 grams	390 grams
13.5kg	135 grams	202.5 grams	270 grams	337.5 grams	405 grams
14.0kg	140 grams	210 grams	280 grams	350 grams	420 grams
14.5kg	145 grams	217.5 grams	290 grams	362.5 grams	435 grams
15.0kg	150 grams	225 grams	300 grams	375 grams	450 grams
15.5kg	155 grams	232.5 grams	310 grams	387.5 grams	465 grams
16.0kg	160 grams	240 grams	320 grams	400 grams	480 grams
16.5kg	165 grams	247.5 grams	330 grams	412.5 grams	495 grams
17.0kg	170 grams	255 grams	340 grams	425 grams	510 grams
17.5kg	175 grams	262.5 grams	350 grams	437.5 grams	525 grams
18.0kg	180 grams	270 grams	360 grams	450 grams	540 grams
18.5kg	185 grams	277.5 grams	370 grams	462.5 grams	555 grams
19.0kg	190 grams	285 grams	380 grams	475 grams	570 grams
19.5kg	195 grams	292.5 grams	390 grams	487.5 grams	585 grams
20.0kg	200 grams	300 grams	400 grams	500 grams	600 grams

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Replaces: NA

**Allnex Construction products, a Division of Allnex New Zealand Ltd**  
 Auckland - 14 Industry Road Penrose phone: 095836544. Hamilton - 18 Somerset Street Frankton phone: 07-847-8658  
 Wellington - 19A Jamaica Drive Grenada North phone: 04-240-0305. Christchurch - 112 Carlyle Street Sydenham phone: 03-366-6802  
 Customer Service: 0508-882-288 [cs.constructionnz@allnex.com](mailto:cs.constructionnz@allnex.com)  
[www.allnexconstruction.com](http://www.allnexconstruction.com)



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