

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.
- HACCP approved manufacturing process as part of the noted systems.
- Cleanroom Standard compliant as part of the Sureshield System AS/NZS ISO14644.4 - 2002.
- Will not support bacteria or fungal growth. Contains STERISHIELD to retard microbial growth.
- Excellent adhesion to properly prepared substrates.
- Free of Bisphenol-A.

PERFORMANCE DATA:

Properties		Values	
Maximum Spread Rate:		<i>Refer: Non-Slip Data below</i>	
Minimum Application Temperature:	~ Air	+5°C	
Maximum Application Relative Humidity:	~ Air	85%	
Pot-Life:		+25°C ~ 50%RH	20 - 30 minutes <i>Dependent on catalyst addition levels</i>
Hard Dry:		+25°C ~ 50%RH	3 hours
Recoat:		Anytime within 24 hours. <i>After 24 hours: Severe mechanical abrasion</i>	
SG kg/litre:		1.08	
Thinning:		Styrene Monomer	
Clean up:		allnex acetone	
Dangerous Good Class:		Refer SDS	
Packaging:	~ STZ Topcoat ~ STZ Hardener	20 kg 3.6 kg	Open top metal container Plastic Bottle
Shelf life:		6 months from date of manufacture <i>(After this period consult with allnex)</i>	

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 Approved 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 Topcoats 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 STZ Topcoat must be stirred well prior to the addition of the Pigment to ensure full dispersion of the wax.

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

TOPCOAT APPLICATION:**Topcoat Application Sequence****One Coat Application Process**

System Stage	Product
Topcoat	STZ Topcoat <i>(the STZ Topcoat is waxed)</i>

Two Coat Application Process

System Stage	Product
First Topcoat	Sureshield Resin
Final Topcoat	STZ Topcoat <i>(the STZ Topcoat is waxed)</i>

- 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 (Hardener; 1-3% on STZ Topcoat weight).

Note

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

THINNING:

May be thinned 5% with Styrene Monomer to aid application.

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

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

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 start of the contract)

allnex rating	Description	CF Rating	SRV Rating	R Rating	Examples	Topcoat Requirements	
	Installation Type	NZ/AS3661.1 1993	AS/NZS 4586		Completely homogeneous floor areas	Number of coats	Spread Rate per litre
NR1	Smooth: Steel trowel floated.	0.46	43	R11	Dry areas e.g. Bakeries	1	6m ²
NR2	Non-slip & Hard-Wearing: Glass float Finish	0.56	53	R12	Light-Wet areas e.g. Heavy-duty bakery.	1	5m ²
NR3.A	Medium duty non-slip: Glass float finish and 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 Nonslip and cleanability.	0.62	56.5	R12	Continually Wet areas with non-slip required. e.g. Light duty Meat, Fish. Wet area Bakery.	2 1 st Coat 2 nd Coat	4.0m ² 6.0m ²
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.	0.73	64.5	R13	Heavy duty e.g. Butchery, abattoirs Fish Processing	2 1 st Coat 2 nd Coat	2.5m ² 4.0m ²
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.	0.73	64.5	R13	Heavy duty processing areas with extra slip hazards.	2 1 st Coat 2 nd Coat	2.5m ² 4.0m ²
NR5	Specialised very heavy-duty non-slip: <i>Refer: allnex for a specification.</i>	0.73	64.5	R13			

HARDENER OPTIONS

Standard Conditions

STZ Hardener

Warm | Hot Conditions

MCP 75

HARDENER ADDITION TABLE

Resin	Catalyst 1%	Catalyst 1.5%	Catalyst 2%	Catalyst 2.5%	Catalyst 3%
1.5kg	15 grams	22.5 grams	30 grams	37.5 gram	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 gram	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 gram	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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