

# Technical Data Sheet

## Supadeck UV Topcoat Polyurethane Coating System

### DESCRIPTION:

Supadeck UV Topcoat is a two-part polyurethane coating system suitable for use on floors and walls. It is used to provide colour, gloss, wear and UV resistance along with excellent colour stability.

### SUPADECK UV IS ALSO USED AS A SYSTEM COMPONENT OF THE FOLLOWING:

- Multiple Supadeck systems as the final topcoat.
- Optional Topcoat system for Nuthane Floor Topping systems.
- Topcoat for High-build epoxy coatings to provide a non-yellowing, high gloss very durable finish. *(E.g. over Terratuff)*

### TYPICAL FEATURES | BENEFITS:

- Chemical, stain & heat resistant.
- UV stable.
- Durable Polyurethane system.
- Waterproofs and protects the basecoat; see limitations below.
- Easy to use and apply.
- Slip resistant, if non-slip additives are employed.
- Easily cleaned.
- Semi-flexible.

### COLOURS:

- Available in a broad range of bright clean colours.
- Also available in White: Used for providing very light reflective surfaces.

Supadeck UV Topcoat is available in many colours in the following charts:

**BS5252: Colour Chart** | **AS2700: Colour Chart** | **RAL** colours & special colours are also available.

### SUPADECK UV TOPCOAT SURFACE FINISH DESIGN OPTIONS:

Supadeck Topcoat can be applied as a [smooth surface](#) or [profiled non-slip](#) application. The degree of the surface profile is determined by the non-slip requirement for the environment. For specific advice. [Refer: allnex Construction Products.](#)

### RECOMMENDED USES:

- Large concrete spaces, decks.
- Pharmaceutical environments - In conjunction with Surecote 200 High build epoxy basecoat.
- Plant rooms – as part of the Supadeck MD system.
- Producing concrete that is sealed against stains in public areas.
- Slip resistant and traffic surfaces and ramps.

### LIMITATIONS:

- Application below +10°C.
  - Application to green (uncured) concrete. Allow 28 days.
  - Application to unsound substrates.
  - Application to incorrectly prepared surface.
- [Refer: allnex construction Products for advice for application onto green wet concrete.](#)
- If the concrete cracks under Supadeck UV Topcoat, then the coating is highly likely to crack as well.

**PERFORMANCE DATA:**

Properties		Values	
Minimum Application Temperature: Air		+10°C	
Maximum Application Relative Humidity: Air		75%	
In-service temperatures - wet : on fully cured system		-10 to +40°C	
Heat resistant:		+40°C	
Chemical Resistance:		Resistant to chemical spillage –cured 7 days at 25°C. <i>Refer: Chemical resistance section.</i>	
Slip resistance:		R11 to R13. <i>Refer: Slip resistance chart</i>	
Hard Dry:		+20°C ~ 75%RH	3 hours
Recoat Time: ~ Minimum ~ Maximum		+20°C ~ 75%RH	1 hour 16 hours
Full Cure:		+20°C ~ 70%RH	Effectively cured after 3 hrs. Full Cure: 7 days at 20°C

**NON-SLIP:- floor definitions:**

Typical co-efficient of friction “wet” NZS/AS3661.1:1993:

*(Samples to be supplied and agreed prior to start of the contract)*

Supadeck Type	Description	Description	CF Rating	SRV Rating	R Rating	Non - Slip
	Installation Type	Finish Type	NZ/AS 3661.1 1993	AS/NZS 4586		Application Rates
<b>Type A</b>	<b>Smooth:</b> Roller applied -	Smooth	0.46	41	R11	
<b>Non-Slip Class 1</b>	<b>Fine/Medium duty non-slip:</b> Roller applied with the addition of:- ~ Microcells <i>Mixed into the second to last Supadeck UV Topcoat prior to application.</i>	Fine non-slip	0.54	50	R11	@220grams/8.8kg kit
	~ Revtred <i>Applied in the second to last coat. broadcast into the second to last coat</i>	Fine-Medium non-slip	0.56	51	R12	12 grams / m <sup>2</sup>
<b>Non-Slip Class 2</b>	<b>Medium duty aggregate: non-slip:</b> Roller applied with the addition of:- ~ J61 Sand ~ Q900 <i>Broadcast into the wet Supadeck UV Topcoat coating with further coats over the aggregate Broadcast</i>	Fine – Silica Sand Fine – medium garnet	0.63 0.73	57 64	R12 R13	2 - 4kg m <sup>2</sup>

## 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 throughout the testing period.	Taken at the times specified.

Test Media	Concentration				Test Media	Concentration			
		1 Hour	3 Hours	6 Hours			1 Hour	3 Hours	6 Hours
<b>ACIDS</b>					<b>ALKALIS</b>				
Hydrochloric Acid	10%	N	N	N	Caustic Soda	50%	N	N	N
Sulphuric Acid	10%	N	N	N	Potassium Hydroxide	30%	N	N	N
Sulphuric Acid	25%	N	N	N					
Acetic Acid	10%	N	N	N	<b>SOLVENTS</b>				
Acetic Acid	50%	N	N	N	Acetone		N		
Nitric Acid	10%	SM	MH	MH	Isopropanol		N		
Citric Acid	10%	N	N	N	Methanol		N		
Lactic Acid	90%	N	N	N	Toluene		N		
Phosphoric Acid	30%	N	N	N					
Hydrogen Sulphide	TBT								
Tannic Acid	TBT								
<b>PETROCHEMICALS</b>					<b>DISINFECTANTS &amp; CLEANERS</b>				
Kerosene		N	N	N	Ammonia Solution	25%	N	N	N
Petrol – 91 Unleaded		N			Iodine(Betadine) solution	10%	REC	REC	REC
Fuel Oil – (Diesel Oil)		N	N	N					
Hydraulic Fluid (Hyspin AWS 46 ex. Castrol Oil)		N	N	N					
Industrial Gear Lubricant (Mobile 632)		N	N	N					
Aviation Fuel	TBT								
Lubricating Oil	TBT								
<b>OTHERS</b>					<b>SALT SOLUTION</b>				
Water Resistance 52°C		N	N	N	Brine	20%	N	N	N
Water Resistance 100°C		N	N	N					
Liquid Milk (Food Emulsion)		N	N	N					

### LEGEND:

<b>N</b>	No mark   No Effect	<b>SM</b>	Slightly Marked
<b>D</b>	Damaged   Blister	<b>MH</b>	Marked Heavily
<b>REC</b>	Recovered *	<b>EF</b>	Evaluate Further
<b>TBT</b>	To be tested		

### Note

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

### Note

Chemical spillages should be cleaned up immediately.

**SUBSTRATE:**

All substrates shall be stable and solid.

*Note*

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 Supadeck UV Topcoat.

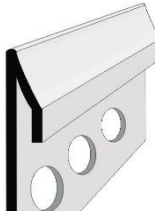
The moisture content shall be less than 75% RH. (*Refer allnex Bulletin on application options for wet or uncured concrete*).

**PLYWOOD | TIMBER | FIBRECEMENT**

*Refer: allnex Construction Products for advice.*

**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:**

STZ prefill system (for adding falls, slope modification and floor angles).

Types: *Refer: STZ Prefill Technical Literature.*

The falls must be specified pre-tender. (*Supadeck UV Topcoat is thin film coating system 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 Supadeck UV Topcoat 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 situations the drains and falls are incorrect. Sometimes new drains are installed.

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.

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 Supadeck UV Topcoat.

Jointing Options	
Control   Construction Joints	Cold Joints   Non-Movement Joints
allnex K130 or allnex Sabre Seal SMP60	allnex K130 or allnex Sabre Seal SMP60

## . QUALITY ASSURANCE:

The allnex 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 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 Supadeck UV Topcoat applied directly.

### Resurfacing:

allnex recommend **two** (2) options:

#### Smooth System

- Re-surfacing with further coats of Supadeck UV Topcoat.

#### Profiled | Non-Slip System

- A second option is Supadeck UV Topcoat Non-Slip which will reinstate the non-slip properties or add non-slip to a previously smooth surface finish.

## 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.

## PRODUCER STATEMENT:

allnex Construction Products state that:-

Terratuff is compliant with:

- HACCP International Certification.
- E3 Internal water 3.1.1e.
- D1 (Access routes / slip resistance wet & dry).

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

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

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