

Technical Data Sheet

Surflaglaze Topcoat Protective Coating



DESCRIPTION:

Surflaglaze Topcoat is a tough, durable hard wearing, 2 pack aliphatic urethane modified acrylic coating. Surflaglaze Topcoat is high gloss, UV durable and suitable as a floor and wall coating.

TYPICAL FEATURES | BENEFITS:

- Interior | exterior application
- Non-yellowing.
- Easily cleaned
- Good chemical resistance.
- Excellent toughness and resilience.
- Full Gloss
- Excellent colour fastness and UV stability
- Good re-coatability.
- Good abrasion resistance
- Contains sophisticated UV protective additives
- Rapid re-coat time

PERFORMANCE DATA:

Minimum Application Temperature: Air	+10°C
Minimum Surface Temperature:	+5°C
Weathering: (1000 hrs QUV accelerated weather tester to ASTM G-53-77. 4 hours UV 60°C, 4 hours condensation 40°C)	No visible effect.
Moisture Vapour (BS 3177:1959)	36 gms permeability: mil/m2/24 hours
Flash Point:	+27°C

COLOURS:

Surflaglaze Topcoat is available in clear and many colours in the standard BS5252F, AS2700 and RAL colours charts. Surflaglaze can be tinted to any colour. Special colours are also available.

RECOMMENDED USES:

- Interior/exterior application.
- Dairy factories and sheds.
- Office buildings.
- Traffic coating for specialised flooring systems.
- Wards and hospital wet areas.
- Food processing facilities –walls & floors.
- May be used with or without Surflaglaze Basecoat.
- Glaze/top coating for high build Surflaglaze system. (Refer: Data Sheets – Surflaglaze High-build system)
- Hygienic Metal protection coating over steel or anti-corrosive coatings.
- A long life protective coating for areas subjected to: severe UV attack, pollution, moderate chemical contamination.
Refer: datasheets Surflaglaze High Build Systems.
- Shower and toilet walls and ceilings: sports and public facilities.
- Food preparation and sales areas.
- Kitchens, bathrooms and shower boxes.
- Topcoat for allnex Situclad WCS system.
- Interior walls and ceilings of boats.
- Coating/refurbishment of insulated panel.
- Coating of roofs constructed of Metal | Concrete | Tiles.

NOT RECOMMENDED:

- Application below +10°C air temperature.
- Application to incorrectly prepared surfaces.
- Areas subjected to chemical or physical attack.
- Application to damp substrates or during damp humid conditions.
- Prolonged contact with strong acids, alkalis or aggressive solvents.
- Application to unsound substrates.
- Continuous immersion.

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

- Provide adequate ventilation if spraying in confined areas: Part B contains reactive Isocyanate.
- When spraying, wear protective clothing, gloves and eye and face protection, including suitable breathing protection such as an air supplied respirator or hood.
- Do not breathe vapour or spray.
- Part B contains reactive Isocyanate.
- Flammable. Erect "No Smoking" signs. No welding or naked flames permitted during installation.
- Have fire extinguishers readily available.

SUBSTRATE:

All substrates shall be stable and solid.

Concrete: New

Shall have a surface which has been mechanically trowelled to AS3610:1995 U3/NZ/3114:1987U3 finish.

Concrete shall be cured for a minimum of 28 days prior to the installation of the Surfaglaze Topcoat.

Minimum Compressive Strength at 28 days cure: 25 MPa. (25 N/mm²)

The moisture content shall be less than: 75% RH.

Have a suitable vapour resistant membrane beneath the concrete.

Concrete: Old

Minimum Compressive Strength: 25 MPa. (25 N/mm²)

The moisture content shall be less than: 75% RH.

Have a suitable vapour resistant membrane beneath the concrete.

****Note****

If the substrate is an above grade slab and waterproofing is required to comply with NZBC E3, consult with allnex Construction Products.

Fibre Cement Sheet:

Fibre cement is close butted, glued and is to be mechanically fastened with 50 x 10g Comsheet 316 stainless screws at 75mm centres around the perimeter and 150mm centres within the sheets. (All fastenings must be countersunk 2 - 3mm) Frame centres should be at a maximum 600mm.

Centre nog joists at 1200mm. Refer to the Manufacturer's installation instructions

All screw holes must be flush filled as per the Manufacturer's instructions.

All joints must be left with a uniform finish.

Plywood Sheet:

Plywood must be CCA (water-based treatment) with a square edge.

Plywood is loose butted, staggered and is to be mechanically fastened by corrosion resistant screws (preferably 50mm 316 stainless screws) at 150mm centres around the perimeter and 200mm centres within the sheets. (All fastenings must be countersunk minimum of 0.5mm) Frame centres should be at a maximum 600mm. Centre nog joists at 1200mm.

All joints must be left with a uniform finish.

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 floor coating system.

Information to be recorded daily is:

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

PRODUCT PROPERTIES:

Pot Life	20°C ~50%RH	2 hours
Touch Dry	20°C ~50%RH	1 hour
Recoat Time	20°C ~50%RH	4 hours
Hard Dry	20°C ~50%RH	12 hours
Total Solids	~ Clear ~ Pigmented	48% 58%
Volume Solids		40%
Thinning		Thin to application: Surfaglaze Thinners
Coverage Rate		6m ² Litre /Coat
Number of Coats	~ Walls ~ Floor ~ Metal Protection	1-2 2 minimum 2 minimum
Wet Film Build – theoretical	~ Walls ~ Floors	165 microns per coat 250 microns per coat
Dry Film Build – theoretical	~ Walls ~ Floors	66 microns per coat 100 microns per coat
Clean Up		Solvent HA
Dangerous Good Class	~ Part A ~ Part B	Hazard Class 3 Packing Group III Hazard Class 3 Packing Group III
Packaging	~ Part A ~ Part B	3.5 litre open top metal container 500 ml screw top metal container
Shelf life		24 months from date of manufacture. (After this period consult with allnex)

SURFACE PREPARATION:

It is the allnex licensed contractors responsibility to inspect all areas which are to receive the Surfaglaze Topcoat coating system and report and unsatisfactory conditions to the main contractor.

The surface to be coated must be clean and sound. Remove all dust, dirt, scale, laitance or any other contaminates.

Any previously coated areas are to be thoroughly cleaned. Unsound paints or coatings are to be removed to expose sound substrate.

Concrete:

Prepare concrete by mechanical abrasion method to:- **CSP3**. (Concrete Surface Profile Scale - International Concrete Repair Institute)

See technical literature:- http://www.allnexconstruction.com/pdf/Floor_Preperation_Requirements.pdf

Remove all concrete curing agents, contaminants and any other material likely to affect the adhesion of the Surfaglaze Topcoat.

Do not apply over existing coating without checking compatibility (compatible with most 2 component coating systems). However over coating is not likely to be successful without strong, coarse sanding or abrasion.

Prefill any large divots with allnex K125 or Epoxy Fairing Cream and diamond grind to remove any highpoints or contaminants.

COVES:

Where required:

See technical literature – Details:- http://www.allnexconstruction.com/pdf/Details_resin-floor-toppings.pdf

Install Coves:

- Small Pencil Coves: Supaset | Supascreed | Sureshield
- Other Coves: Supascreed | Sureshield

Install allnex cove upper termination metal strips: **5.2mm or 9.2mm rebated strip**.

Use a rebated wall cut if the coving strip cannot be used.

Install fibreglass CSM cloth in floor/wall internal junctions. (Required on surfaces other than Concrete upstands)

STZ PREFILL: (for adding falls, slope modification and floor angles)

Where required:

STZ prefill system types: See STZ technical literature. http://www.allnexconstruction.com/pdf/stz_prefill.pdf

The falls must be specified pre-tender. (Surfaglaze Topcoat is medium build floor coating 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 Surfaglaze 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 the drains and falls are incorrect. Sometimes new drains are installed. The Prefill create falls of at least 1: 50 to ensure no ponding water.

(1:100 will fall but will have standing water in places).

SURFAGLAZE KIT MIX RATIOS AND COVERAGE:**Walls**

Resin: Part A	3.5 litre
Hardener: Part B	0.5 litre
Mix Total - litres	4.0 litre kit
Kit Coverage @6m ² / litre /coat ~ 2 x coats	12m ²
~ 3 x coats	8m ²

Floors

Resin: Part A	3.5 litre
Hardener: Part B	1.0 litre - 2 x 500ml
Mix Total - litres	4.5 litre kit
Kit Coverage @6m ² / litre /coat ~ 2 x coats	13.5m ²
~ 3 x coats	9m ²

****Note****

These rates are based on undiluted material. Allowances must be made based on the rate of dilution, application losses and surface irregularities.

MIXING METHOD:

Power mix at low speed (approximately 400-500rpm) for 2 minutes ensuring the Part A and Part B is homogeneously blended.

Mix slowly to avoid air entrapment.

Allow to stand for 2 minutes prior to use.

APPLICATION METHOD:

Roller, brush, conventional or airless spray.

Note

Roller and Brush applications are usually only for smaller areas.

****Note****

With spray application, a wet-on technique can be used.

Two Coat Topcoat System:

Apply two (2) coats of Surfaglaze Topcoat at 6m²/litre/coat

Three Coat Topcoat System:

Three (3) coats are recommended if being used as a floor coating with a non-slip media.

Apply three coats of Surfaglaze Topcoat at 6m²/litre/coat

The non-slip media is applied in the second coat of Surfaglaze Topcoat.

SLIP RESISTANT FINISHES:

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

CF	Non-slip Media	Quantity m ²	Application
0.54	Microcells	2.78 grams	Mixed into kit - applied in second coat ~ 100 grams per 4 litre Kit
0.56	Revtred	12 grams	Broadcast into second wet coat
0.63	J61 Sand	2 kg	Broadcast into second wet coat

JOINTS:

All concrete control and construction joints should be carried through the Surfaglaze Topcoat using allnex K130 Epoxy sealant.

MAINTENANCE:**Repairs:**

Chemically clean.

Mechanically abrade surface.

Repair any divots with allnex K125 or Fairing Cream.

Apply Surfaglaze Topcoat as per "Installation instructions".

CLEANING:**Smooth Surface:**

Conventional floor cleaning procedures are normally adequate to maintain clean and hygienic surface.

Non-slip Surface:

Mopping may **not** adequately remove dirt and grime from the surface profile of the Surfaglaze Topcoat system.

We therefore recommend the use of a soft bristled broom in conjunction with the cleaning solution.

**** Note****

Ensure all detergent materials, dirt etc. is thoroughly rinsed from the surface following cleaning.

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.

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The logo for Allnex, featuring the word "allnex" in a white, lowercase, sans-serif font. Above the letters "i" and "l" in "all", there are three horizontal bars in red, orange, and green respectively. The logo is set against a dark blue background.

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