

Technical Data Sheet

Twintite System Protective Coating



DESCRIPTION:

Twintite is a system that is configured through a combination of Aquakem (Aquaguard 101) and Surfaglaze Topcoat.

- *Aquakem (Aquaguard 101): water-based two-part epoxy polyamide basecoat*
- *Surfaglaze Topcoat: high-gloss urethane acrylic.*

Twintite gives extremely high adhesion to concrete surfaces and prevents water vapor transmission from the concrete into the back surface of the coating. This greatly reduces the risk of delamination.

TYPICAL FEATURES | BENEFITS:

- Interior | Exterior application.
- Non-yellowing.
- Easily cleaned.
- Full Colour choice.
- Excellent toughness and resilience.
- High-Gloss.
- Not susceptible to alkaline concrete.
- Excellent colour fastness and UV stability.
- Good re-coatability.
- High adhesion properties.
- Will bond to the damp concrete found on construction sites.
- 360 total micron film build.
- High build.
- Chemical and heat resistant.

COLOURS:

Twintite top-coat (Surfaglaze Topcoat) is available in many colours in the standard BS5252F, AS2700 and RAL colours charts.

RECOMMENDED USES:

- Interior | Exterior application.
- Dairy factories and sheds.
- Food processing facilities.
- Sports and public facilities.
- Food preparation and sales areas.
- Commercial buildings.

NOT RECOMMENDED:

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

LIMITATIONS

Surfaglaze topcoat must not be applied to green Aquaguard 101 (must be cured for 48 hours prior)

- Surfaglaze topcoat is solvent based.

- In very high, continuous heat environments use Surfaglaze Topcoat on its own directly to concrete (which must be dry prior).

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

- Avoid skin contact.
- If spraying wear a suitable respirator.
- Wear safety equipment.

SUBSTRATE:

All substrates shall be stable and solid.

Concrete:

This system may be applied to damp concrete and concrete that is greater than 7 days old.

However; it is preferable to allow as long as possible for the concrete to cure and dry. E.g. allow 28 days cure time after the placement of the concrete.

Precast | In-Situ Cast Concrete

Insitu concrete shall be finished to NZS 3114:1987 F5 finish or better.

Concrete Block:

Concrete Block must be installed to the manufactures specifications and comply with current building codes.

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.

SURFACE PREPARATION:

It is the allnex licensed contractors responsibility to inspect all areas which are to receive the Twintite 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.

All blow holes, pin holes, hollows, defects etc are to be bagged, filled or made good using allnex Fairing Cream.

This epoxy should be used as the Aquaguard 101 must bond to a sound surface.

Masonry (Blockwork), Bricks, Cement Plaster

Coatings, when applied to pointed bricks or blockwork will follow the mortar pattern of the substrate. This type of finish can be very effective where desired, however where a flush finish is desired the substrate should be flushed.

Cementitious surfaces shall be cured for a minimum of 28 days and be dry prior to coating.

Precast | In-Situ Cast Concrete

Any defects or hollows shall be made good with allnex Ultrafinish

Control joints – as below.

Concrete:

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

Do not apply over existing coating systems as the Aquaguard 101 basecoat must be applied directly to the substrate.

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

CONTROL JOINTS

Control Joints shall be expressed and waterproofed separately and prior. Construction or expansion joints should be filled with a suitable elastomeric sealant applied in accordance with manufacturers' recommendations.

Sealant should be installed after the completion of coating. If over-coating sealants check with allnex Construction Products for compatibility

APPLICATION METHOD:

Roller | Brush | Conventional Spray | Airless Spray

Aquaguard 101 | Surfaglaze Topcoat are to be applied according to their individual datasheets.

SYSTEM APPLICATION:

In all instances a minimum film build of 360 microns is to be obtained.

- a) Apply 1st coat of Aquaguard 101 at 3m²/litre. DFT 125 microns
- b) Apply 2nd coat of Aquaguard 101 at 3m²/litre. DFT 125 microns
- c) Apply Surfaglaze Topcoat (colour -----) at 10m²/litre. DFT 60 microns

Option

Extra coat for certain bright colours.

- d) Apply Surfaglaze Topcoat (colour -----) at 10m²/litre. DFT 50 microns

MAINTENANCE:

Repairs:

Chemically clean.

Mechanically abrade surface.

Repair any divots with allnex K125 or Fairing Cream.

Apply the Trifast system as per "the individual component Installation instructions".

CLEANING:

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

**** Note****

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

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