

# Technical Data Sheet



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Replaces Jan 2013

## Supadeck BG

Below Grade (BG) waterproofing liquid membrane

**PRODUCT DESCRIPTION** Protective Tanking coating system

Supadeck BG is a polyurethane waterproofing system which displays superior elongation for flexibility. Interior / Exterior

**TYPICAL USES** For use on concrete where a liquid roll-on waterproofing is required.

Typical applications may include the following:

- Construction
- Complex areas small decks, planters, retaining walls.
- Concrete gutters
- Pond liner.
- Damp-proofing
- Temporary waterproofing on horizontal areas.

### FEATURES AND BENEFITS

- Black
- Seamless – no joints other than existing in the concrete.
- Two-pack. BG will cure in all conditions and will through-cure, even in thick corner applications..
- Excellent mechanical properties.
- Chemical, stain resistant
- 1.5 -2mm thick
- Versatile application
- Flexible
- UV stable. BG will chalk (whiten off ) but is quite stable.
- Waterproofs and protects the concrete; see limitations below.
- Coverage: the 16 kg kit will cover 12m<sup>2</sup>of finished work.

### Durability

- Very good all round resistance and retention of flexibility and elongation.

**LIMITATIONS** Supadeck BG provides waterproofing to concrete surfaces.

1. Waterproofing of concrete is by prevention of water and chloride saturation of concrete. This will protect the reinforcing steel.
2. However it has very limited ability to bridge moving or developing cracks. Install waterproofing crack control systems : eg Unison UPB, joint safe-tape.
3. If the concrete cracks under Supadeck BG, then the coating is highly likely to crack as well.
4. The surface should be surface dry.
5. Normally not a trafficable membrane.
6. Sheet materials such as Bituthene 3000 are best for larger areas and Soprasun torch-on membranes for roofing.

**NB: Please refer to both Nuplex and the building engineer for full details on specialist movement joints for crack control. See back page.**

### SPECIFICATION How to Specify

"The concrete shall be prepared correctly as per the Nuplex Supadeck BG data and smooth, patch or fill with K125 if appropriate.

The system shall be primed if appropriate with Supadeck BG base resin in two coats as supplied by Nuplex Construction Products and as applied to the specific application by roller technique described in Nuplex's written instructions."

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## **Concrete Specifications**

### **New Concrete**

Shall have a surface which has been formed without defects. A minimum compressive strength of the specified by the engineer. An average slab moisture content less than 18% or 75% RH. A surface free of cement laitance or other contaminants and any roughly screeded or floated patches or areas. No traces of cure membranes or release agents.

### **OLD concrete**

Shall be inspected by the engineer and approved for overcoating. Fill or patch repair with K125 epoxy.

All cracks must be identified during surface preparation.

### **SURFACE PREPARATION**

- All concrete defects will be filled with K125.
- All points and high points will be ground flat.
- Surfaces must be dry.
- Rough surfaces can be filled prior to the installation of the Supadeck BG by using Nuplex K125.
- Ensure all corners are round radiused.
- Fine cracks : use the first coat of BG with Nuplex reinforcing tape to bridge the joint.
- Larger cracks will be treated as advised by the engineer. May be fiberglassed over Joint-safe tape. This is applicable on concrete transitions; ie slab joints, wall to floor joints etc.
- Ensure all surfaces are smooth and no sharp angles or protrusions exist.
- Upstands will be corner filleted with k125. Corners with cracks will be fiber-glassed.
- IMPORTANT: All surfaces will then be ground to achieve a profile that will achieve Supadeck BG adhesion.
- If the concrete is damp or wet, apply Aquaguard 101 as per specification.

### **Application:**

Keep all materials cool to ensure that they do not react too quickly.

Neatly mask out all areas not covered by the proposed work. Accurately weigh and mix materials in the correct proportions in a separate container.

Priming is not required on dense even concrete. Priming is required on uneven or porous concrete.

### **SYSTEM:**

- Priming - If required, Prime the prepared concrete surface with a coat at 3m<sup>2</sup>/lt of mixed Supascreed primer.
- The system consists of two roll-on coats of Supadeck BG applied at 1.5m<sup>2</sup> / lt / coat – two coats

### ***Supadeck BG uses resin and hardener..***

Apply to the freshly primed surface with a coat at 1.5m<sup>2</sup>/lt of mixed Supadeck BG resin. The mix ratio of this is 3:1

### **Supadeck BG mix:**

Supadeck BG Resin (as above 12.33 kg plus Supadeck BG hardener 4 kg

Always mix in full kits or by weight.

Mix well with power drill mixer; avoiding aeration.

### **Application**

Roll or brush onto the surface evenly at 1.5m<sup>2</sup>/lt. The need is to apply the material evenly so that a consistent film thickness results; independent of the evenness of the substrate.

Each coat should produce a 0.7mm layer of BG.

Work quickly as the pot life is short, 20 -40 minutes approx.

Allow to tack free to a walkable state. The Supadeck BG is coatable for a 36 hour period.

Apply a second coat at 1.5m<sup>2</sup>/lt.

Attend to all detailing.

If used as a planter or tanking membrane; protect the Supadeck BG with Nuplex NPX protection sheet.

If used as a pond liner; cure for 7 days; fill sit and drain before refilling.

### **Warranty:**

Five years against premature weathering or wear. Impact damage, joint cracking over concrete joints and excessive physical abrasion is excluded.