

Technical Data Sheet

Supadeck BG - Liquid Waterproofing Membrane



DESCRIPTION:

Supadeck BG is a polyurethane waterproofing system which displays superior elongation for flexibility. Typically used on concrete where a liquid roll-on waterproofing is required but also may be used on Poly-block Construction. Interior / Exterior installation.

TYPICAL FEATURES | BENEFITS:

- Black.
- Excellent mechanical properties.
- Flexible with good durability.
- High solid equals high film build.
- Chemical, stain-resistant.
- Very good all-round resistance and retention of flexibility and elongation.
- Two-pack. BG will cure in all conditions and will through-cure, even in thick corner applications.
- Waterproofs and protects the concrete; see limitations below.
- Seamless– no joints other than existing in the concrete.
- UV stable. BG will chalk (whiten off) but is quite stable.
- Quick drying.
- High elongation.
- Versatile application.

SUGGESTED APPLICATIONS:

- Construction.
- Concrete Gutters.
- Damp Proofing.
- Complex areas small decks, planters, retaining walls.
- Pond Liner.
- Temporary waterproofing on horizontal areas.

NOT RECOMMENDED:

- Normally not a trafficable membrane.
- Exterior exposed areas (not covered) UV stable. BG will chalk (whiten off) but is quite stable.
- The substrate should be surface dry prior to installation.
- For larger areas; sheet materials such as Bituthene 3000 for tanking and Soprasun torch-on for roofing membranes are best.

PERFORMANCE DATA:

Minimum Thickness	1.5mm
Minimum Application Temperature: Air	+5°C
Maximum Application Relative Humidity: Air	85%

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

- Wear gloves wherever possible.
- Wash hands with warm, soapy water after any skin contact.
- Re-seal all containers tightly.

SURFACE PREPARATION:

The surface must be clean and sound.

New Concrete:

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:

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.

Polystyrene Block:

The polystyrene block must be installed to the manufacturer's instructions and comply with current building legislation.

SURFACE PREPARATION:**Concrete**

- All concrete defects will be filled with allnex K125.
- Surfaces must be dry.
- Upstands will be corner filleted with allnex K125.
- Ensure all surfaces are smooth and no sharp angles or protrusions exist.
- Rough surfaces can be filled prior to the installation of the Supadeck BG by using allnex K125.
- All points and high points will be ground flat.
- Ensure all corners are round radiused.

Fine cracks:

- Use the first coat of BG with allnex reinforcing tape to bridge the joint.

Larger Cracks:

- Will be treated as advised by the engineer.
- May be fibre-glassed over Joint-safe tape. This is applicable on concrete transitions; i.e. slab joints, wall to floor joints etc.
- Corners with cracks will also be fibre-glassed.

Surface Adhesion Profile:

- IMPORTANT: All concrete surfaces will be prepared by way of diamond grinding to achieve a profile that will achieve Supadeck BG adhesion.

Damp or Wet Concrete:

- If the concrete is damp or wet, apply Aquakem (Aquaguard 101).
- Two coats at 3m² per litre/coat (Refer Aquakem (Aquaguard 101) technical literature).
[www.allnexconstruction.com/getmedia/3871c2dc-95ba-4cfd-94ed-4563380e2a54/Aquakem-\(Aquaguard-101\)-TDS.pdf](http://www.allnexconstruction.com/getmedia/3871c2dc-95ba-4cfd-94ed-4563380e2a54/Aquakem-(Aquaguard-101)-TDS.pdf)

Polystyrene Block:

- The block must be clean and dry.

INSTALLATION:

- 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.

Substrate Priming:

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

Priming - If required,

- Prime the prepared concrete surface with a coat of mixed Supascreed Primer at a coverage rate of 3m²/lt.(Refer Supascreed Primer technical literature)
www.allnexconstruction.com/getmedia/a87a61a6-a842-420c-8888-6232bc846df5/Supascreed-Primer-Floor-Sealer-TDS.pdf

Mixing of Supadeck BG:

- Accurately weigh and mix materials in the correct proportions in a separate container.

Supadeck BG : Kit Size**Supadeck BG : Mix Ratio**

Supadeck BG Resin	12.33 kg	Supadeck BG Resin	3 parts by weight
Supadeck BG Hardener	4kg	Supadeck BG Hardener	1 part by weight

- Always mix in full kits or by weight.
- Mix well with power drill mixer; avoiding aeration.

Application of Supadeck BG:

Roller | Brush

- Apply to the freshly primed surface with a coat at 1.5m²/lt of mixed Supadeck BG resin.
- Roll or brush onto the surface evenly at 1.5m²/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 become tack free.
- Apply a second coat at 1.5m²/lt.
- Attend to all detailing.
- The Supadeck BG is recoatable for a 36-hour period.

Planter Box Installation:

- If used as a planter or tanking membrane; protect the Supadeck BG with allnex NPX protection sheet.
www.allnexconstruction.com/getmedia/845f72e6-eff6-4689-8ec8-21209a7c50b7/Allnex-NPX-Drainage-Protection.pdf

Pond Liner Installation:

- If used as a pond liner; cure for 7 days; fill with water, let sit and drain before refilling.

SYSTEM:

System	Material	Coverage
Bonding onto Damp Wet Concrete (If required)	Aquaguard 101	2 x coats @3m ² /litre/coat
Primer (if required)	Supascreed Primer	5-6m ² /lt
1 st Coat	Supadeck BG	1.5m ² /lt
2 nd Coat	Supadeck BG	1.5m ² /lt
Protection sheet (if Required)	NPX Protection and Drainage Composite	1m ²

PRODUCT PROPERTIES:

Pot Life	+20°C ~50%RH	20 minutes
Hard Dry	+20°C ~50%RH	Minimum 5 hours
Recoat	Anytime within 36 hours. After 36 hours: Severe mechanical abrasion and solvent wipe required.	
SG kg/litre	~ Resin ~ Hardener	1.014 1.0
Kit Coverage	Coverage: the 16 kg kit will cover 12m ² of finished work.	
Thinning	Do Not Thin	
Clean up	allnex acetone	
Dangerous Good Class	~ Supadeck BG Resin ~ Supadeck BG Hardener	Not Regulated Not Regulated
Packaging	~ Supadeck BG Resin ~ Supadeck BG Hardener	12.33kg 4kg
Shelf life	12 months from date of manufacture (After this period consult with allnex)	

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