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Supadeck WD

Interior / Exterior Protective Deck coating system

PRODUCT DESCRIPTION

Supadeck WD is a polyurethane deck coating system which displays superior wear and UV resistance. It is used to protect concrete and to provide slip resistance.

- **It provides increased waterproofing of the concrete.**
- **Supadeck WD is a system that uses a number of product components.**

TYPICAL USES

For use on concrete where a tough, hardwearing, UV stable slip resistant coating is required. Typical applications may include the following:

- Construction
- Large concrete spaces, decks
- Plant rooms
- Concrete protection
- Traffic decks: Slip resistant and traffic surfaces and ramps.
- Producing concrete that is sealed against stains in public areas.
- Colour differentiation.

FEATURES AND BENEFITS

- Seamless – no joints other than existing in the concrete.
- Excellent mechanical properties.
- Chemical, stain & heat resistant
- 2mm thick
- Versatile application
- Flexible
- UV stable
- Slip resistant
- Waterproofs and protects the concrete; see limitations below.
- Colours – available in a limited colour range in factory batch quantities. On site colouring by tints or oxides.

Durability

- Very good all round resistance
- UV stable
- Slip resistant
- Flexible

LIMITATIONS

Supadeck 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 (new crack appears) under Supadeck WD, then the coating is highly likely to crack as well.
4. The surface should be surface dry.

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

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SPECIFICATION**How to Specify**

"The concrete shall be prepared correctly as per the Nuplex Supadeck WD data and smooth with K125 if appropriate.

The system shall be Supascreed primer, Supadeck WD base resin systems and Supadeck UV Topcoat as supplied by Nuplex Construction Products and as applied to the specific application by roller technique described in Nuplex's written instructions."

CONCRETE**Concrete Specifications****New Concrete**

Shall have a surface which has been formed without defects.

A minimum compressive strength of the specified by the engineer. The concrete must be dry. 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, shotblasted and approved for overcoating.

All cracks must be identified during surface preparation.

SURFACE PREPARATION**IMPORTANT:**

- All concrete defects will be filled with K125.
- All points and high points will be ground flat.
- Concrete must be dry.
- All concrete is shotblasted or diamond ground.
- Rough surfaces can be filled prior to the installation of the Supadeck MD by using Nuplex K125 or K102.
- Ensure all corners are round radiused.
- Cracks will be treated as advised by the engineer.
May be fibreglassed over Joint-safe tape. All resin/ glassed areas must be heavily sanded and acetone wiped to ensure adhesion.
- Ensure all surfaces are smooth and no sharp angles or protrusions exist.
- Upstands will be fiber-glassed. All resin/ glassed areas must be heavily sanded and acetone wiped to ensure adhesion.
- **IMPORTANT:** All surfaces will then be shot blasted to achieve a profile that will achieve Supadeck MD adhesion. Small areas may be coarse diamond cup ground

INSTALLATION

Ensure that all materials are store interior in cool conditions to prevent too rapid curing and short pot-lives.

The system consists of 5 sections

1. Surface abrasion - above
2. Priming
3. B1 Bodycoat
4. B1 Bodycoat as a wear coat with aggregate
5. UV Topcoat.

Priming

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

Prime the prepared concrete surface with a coat at 5m²/lt of mixed Supascreed Primer including the water. (see data sheet). Always mix in full kits or by weight. Mix well with power drill mixer. Roll onto the surface and commence placement of the broadcast aggregate. While wet evenly but sparingly distribute by broadcast K20s aggregate. Allow to tack free to a walkable state.

NB The whiteness in the Supascreed primer must be gone.

Areas that have been primed should be overcoated within 12 hrs; please plan accordingly.

Body Coat

Neatly mask out all areas not covered by the proposed work. Accurately weigh and mix Supadeck B1 resin and Hardener in the correct proportions in a separate container.

Apply by roller or squeegee to the freshly primed surface with a coat at 1m²/lt of mixed Supadeck B1 resin. The mix ratio of this is 100 : 22.2

Supadeck B1 mix:

Supadeck B1 Resin (as above)	13Lt	(17.55kg)
Supadeck B1 hardener (as above)	4 Lt	(3.9 Kgs)

Always mix in full kits or by weight.

Mix well with power drill mixer without entrapping air.

Roll onto the surface and commence placement of the broadcast aggregate.

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

Allow to tack free to a walkable state. The Supadeck B1 is coatable for a 36 hour period.

Wear Coat

Neatly mask out all areas not covered by the work. Accurately weigh and mix Supadeck B1 resin and Hardener in the correct proportions in a separate container.

Apply by roller or squeegee to the freshly applied first bodycoat surface with a coat at 1m²/lt of mixed Supadeck B1 resin. The mix ratio of this is 100:22.2

Supadeck B1 mix:

Supadeck B1 Resin (as above)	13Lt	(17.55kg)
Supadeck B1 hardener (as above)	4Lt	(3.9 Kgs)

Always mix in full kits or by weight.

Mix well with power drill mixer

Roll onto the surface and commence placement of the broadcast aggregate.

Work quickly as the pot life is short, 20 minutes approx. While wet evenly and fully distribute by broadcast aggregate to refusal.

Fine aggregate finish : use k20s silica

Coarser finish: 18/36 WP silica - this is the standard system aggregate.

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

UV Topcoat

Neatly mask out all areas not covered by the proposed work. Accurately weigh and mix Supadeck UV topcoat resin and Hardener in the correct proportions in a separate container.

Prime the prepared concrete surface with a coat at 5m²/lt of mixed Supadeck UV topcoat resin. The mix ratio of this primer is 100:10.6

Supadeck UV topcoat mix:

Supadeck UV topcoat Resin (as above)	8 kg
Supadeck UV topcoat hardener (as above)	0.848 Kgs

Always mix in full kits or by weight.

Mix well with power drill mixer

Roll onto the surface to achieve an even finish. Avoid applying in full sun so that a wet-edge can be maintained to achieve an even finish.

Applying in the mid – late morning will allow a good cure before a falling temperature may form condensation on the surface and possible marking.

Supadeck WD System summary

	Mix ratio	Application rate	Cure Time	Recoat time	Drive on time
Supascreed Primer	Full kit & water	5m ² /Lt	4hrs	4hrs	-
Supadeck B1	100:22.2	1 m ² /Lt	2-4hrs	4hrs	-
Supadeck B1 + aggregate broadcast	100:22.2	1 m ² /Lt	2-4hrs	4hrs	-
Supadeck UV Topcoat	100:10.6	5m ² /Lt	2hrs	1hr	3 hours

- Optional Supadeck TF topcoat available with no solvents / no odour.

Supadeck WD requirements for 1000m² concrete deck *1

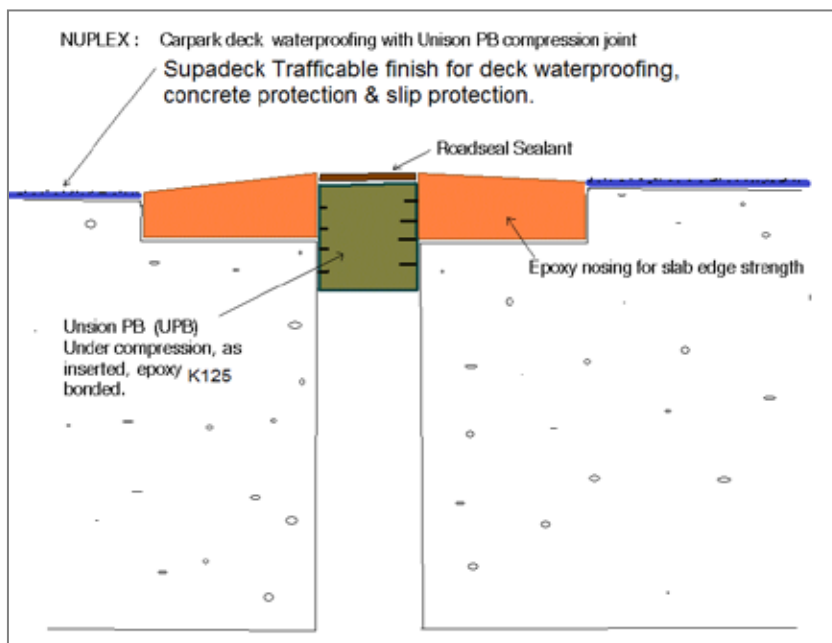
	Part A	Part B	mixed
Supascreed Primer			25 kits
Supadeck B1	816kg	186kg	1000lt
Supadeck B1 + aggregate broadcast	816kg	186kg	1000lt
Supadeck UV Topcoat	180kg	20kg	200lt

*1 These are estimates and do not allow for wastage or surface variation..

Warranty:

on application. Normally 15 years.

Example of traffic deck with specific joint control



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