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## Supadeck MD

Interior / Exterior Protective Deck coating system

### PRODUCT DESCRIPTION

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

**See Supadeck demonstration video on Youtube:**

[www.youtube/watch?v=blegR6zQfxs](http://www.youtube/watch?v=blegR6zQfxs) Or search 'Supadeck' on Youtube

### 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
- 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
- 1.5 mm thick; approx
- Versatile application
- Resilient
- Aggregated surface reduces “squealing” of car tyres
- 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 sealant.
3. If the concrete cracks under Supadeck MD, then the coating is highly likely to crack as well.
4. The concrete should be dry and 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 MD data and smoothed with K125 if appropriate.

The system shall be Supascreed primer, Supadeck MD base resin 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.

An average slab moisture content less than 18% or 75% RH. A surface free of cement latence or other contaminants and any roughly screeded or floated patches or areas. No traces of cure membranes or release agents.

It shall be inspected, shotblasted and approved for overcoating.

**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 is 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.
- Ensure all corners are round radiused.
- Ensure all surfaces are smooth and no sharp angles or protrusions exist.
- Upstands that have multiple joints, are overly flexible or cracked will be fiber-glassed. Vertical to horizontal transitions will be glassed if there is a joint. 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

**JOINT CONTROL**

- See details at rear.
- Cracks will be treated as advised by the engineer. Cracks will be cut open and have sealant applied.
- Control joints will be cut and cleaned and filled with sealant
- Large joints and seismic joints will be treated with specific joints. eg Unison, eg UPB.
- Small detail cracks may be fibreglassed over Joint-safe tape. All resin/ glassed areas must be heavily sanded and acetone wiped to ensure adhesion.
- **NOTE:**  
**Cut joints by acceptable trade practice.**  
The joints are maintenance items as it is not possible to predetermine the amount of slab movement that will occur. A cracked coating is very difficult to repair. A cracked sealant joint is relatively easy to cut out and replace.  
Nuplex do not believe that it is a good long term solution to put coatings over known cracks and joints.

**INSTALLATION**

The system consists of 4 sections

1. Surface abrasion and Joint control- above
2. Priming
3. Bodycoat
4. 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 5m<sup>2</sup>/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 18 hrs. Plan accordingly.

## Body Coat

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

***Supadeck MD uses Supadeck B1 resin and hardener and Supadeck UV topcoat resin and hardener.***

(There is a Supadeck TF topcoat option if a no-solvent, no-odour application is required. These items are packed in kits in the correct mix ratio.)

Apply the B1 system to the freshly primed surface with a coat at 1m<sup>2</sup>/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. A mixed kit is 17 lts

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 but sparingly distribute by broadcast 18/36 aggregate.

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

Supadeck  
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.

Apply to the Supadeck B1 basecoat within 24 hours of that B1 coating.

Apply to the cured B1 basecoat a coat at 5m<sup>2</sup>/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 Kg

Always mix in full kits or by weight. A mixed Kit is 7.75 lts

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 System summary

	Mix ratio	Application rate	Cure Time	Recoat time	Drive on time
Supascreed Primer	Full kit & water	5m <sup>2</sup> /Lt	4hrs	4hrs	-
Supadeck B1	100:22.2	1m <sup>2</sup> /Lt	2-4hrs	4hrs	-
Supadeck UV Topcoat	100:10.6	5m <sup>2</sup> /Lt	2hrs	1hr	3 hours
<b>OPTIONAL: Supadeck TF Topcoat. NO ODOUR</b>	100:29.1	2.5m <sup>2</sup> /Lt	2hrs	1hr	3 hours

Supadeck requirements for 1000m<sup>2</sup> concrete deck \*1

		mixed
Supascreed Primer		25 kits
Supadeck B1	59 mixed 17 lt kits.	1000lt
Supadeck UV Topcoat	26 mixed 7.75 lt kits	200lt

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

**Warranty:**

Warranties are offered against premature weathering or wear. Impact damage and excessive physical abrasion is excluded. See warranty form.

Example of traffic deck with specific joint control



