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## **Supadeck M1**

### **Interior / Exterior Protective Deck coating system**

**PRODUCT DESCRIPTION**

Supadeck M1 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 -2mm thick
- Versatile application
- Flexible
- 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 safe-tape.
3. If the concrete cracks under Supadeck M1, 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 M1 data and smooth with K125 if appropriate.

The system shall be Supascreed primer, Supadeck M1 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.

**OLD concrete**

Shall be inspected by the engineer 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.
- Rough surfaces can be filled prior to the installation of the Supadeck M1 by using Nuplex K125.
- Ensure all corners are round radiused.
- Cracks will be treated as advised by the engineer.  
May be fibreglassed over Joint-safe tape.
- Ensure all surfaces are smooth and no sharp angles or protrusions exist.
- Upstands will be fiber-glassed.
- IMPORTANT: All surfaces will then be shot blasted to achieve a profile that will achieve Supadeck M1 adhesion. Small areas may be coarse diamond cup ground

**INSTALLATION**

The system consists of 4 sections

1. Surface abrasion - above
2. Priming
3. Bodycoat
4. UV Topcoat

**Priming**

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

Prime the prepared concrete surface with a coat at 2m<sup>2</sup>/lt of mixed Supascreed resin. The mix ratio of this primer is 3:1. Fast, standard or slow hardener grades are available.

**Primer mix:**

Supascreed LA Resin (as above) 3 Kgs

Supascreed hardener (as above) 1 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. While wet evenly but sparingly distribute by broadcast 18/36 aggregate.  
 Allow to tack free to a walkable state. The primer is coatable for a 36 hour period.

**Body Coat**

Neatly mask out all areas not covered by the proposed work. Accurately weigh and mix Supadeck M1 resin and Hardener in the correct proportions in a separate container.

**Supadeck M1 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 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.

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 M1 is coatable for a 36 hour period.

**Supadeck M1 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 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) 8kg  
 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 System summary**

|   | Mix ratio | Application rate      | Cure Time | Recoatable time | Drive on time |
|---|-----------|-----------------------|-----------|-----------------|---------------|
| Primer  | 3:1       | 2m <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       |
| OPTIONAL:<br>Supadeck TF Topcoat.<br>NO ODOUR | 100:29.1  | 2.5m <sup>2</sup> /Lt | 2hrs      | 1hr             | 3 hours       |

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

|                        | Part A                | Part B                 | mixed         |
|------------------------|-----------------------|------------------------|---------------|
| Primer                 | 375kg =<br>19 x 20 lt | 125 lt =<br>19 x 6.7lt | 500kg = 500lt |
| Supadeck B1            | 816kg                 | 186kg                  | 1000lt        |
| Supadeck UV<br>Topcoat | 180kg                 | 20kg                   | 200lt         |

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

#### Warranty:

Five years against premature weathering or wear. Impact damage and excessive physical abrasion is excluded.

Example of traffic deck with specific joint control

