

## Deckshield PDS Membrane

Deckshield PDS Membrane is a medium viscosity polyurethane modified reactive methly methacrylate (PUMMA) resin.

### Uses

Typically used as a crack bridging waterproof membrane within the Deckshield ED Rapide system. This highly elastomeric membrane remains flexible and crack bridging to -20°C.

### Environment & Health

Follow the appropriate Occupational Health and Safety guidelines applicable to the location where the application is undertaken. For more information, please refer to the safety datasheets for the individual components.



#### Fast Curing:

Rapid curing Membrane allows for quick installation.



#### Ease of Use:

Easy to apply with excellent application properties.



#### Resistance:

Exhibits excellent impact and puncture resistant.

### Packaging

The product is supplied in full units.

Deckshield PDS Membrane	25 kg
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### Catalyst Addition Rates

Temperature	Weight Percentage Flowfast Catalyst	Gram Flowfast Catalyst per 4kg
30 °C	1.0%	40g
20 °C	2.0%	80g
10 °C	4.0%	160g
0 °C	6.0%	240g
<0 °C*	6.0%	240g

\*Please consult Flowcrete if applying below 0 °C

### Standard Coverage Rates

First Coat	0.60kg/m <sup>2</sup>
Second Coat	0.60kg/m <sup>2</sup>

### Curing Times (at 20°C)

Min Overcoating	1 hour
Max Overcoating	Following coats should be applied after the membrane has cured. If left overnight clean the surface with Flowfast Cleaner prior to applying the following coats.
Foot Traffic	1 hour
Full Chemical Cure	2-3 hours

\*Full chemical resistance is achieved after 2-3 hours.  
\*\* Do not cover or wash within the first 2 hours of curing.

### Additional Information

Density @ 25°C	Approx 1.2 g/ml
Viscosity @ 25°C	460-730 mPa·s
Shore A Hardness:	91
Shore D Hardness:	36
Tensile Strength:	11.6 MPa

<b>Elongation at Break:</b>	407%
<b>Elongations at Rupture:</b>	407%
<b>Modulus of Elasticity:</b>	88 MPa

## Substrate Requirements

Concrete or screed substrate should be a minimum of 25 N/mm<sup>2</sup>, free from laitance, dust and other contamination. The area to be coated, must be pretreated with Flowfast Primer.

Substrate should be dry to 75% RH as per ASTM F2170 (AS1884:2012). Slab on ground concrete must have an effective damp proof membrane in place.

On above ground installations, the Deckshield PDS Membrane should not be used on areas where there is an existing membrane in place.

## Storage

<b>Time</b>	12 Months in Unopened Packs. If longer than 12 Months consult Flowcrete.
<b>Temperature</b>	Storage temperature between 15°C and 20°C.
<b>Protection</b>	Should be stored inside and protected from frost, weather, moisture, direct sunlight and contamination ingress.

## Mixing

Please refer to appropriate Technical Data Sheet as per required specification.

Prior to use, Deckshield PDS Membrane must be carefully stirred to achieve a uniform distribution of paraffin and other solids contained in the product.

Ensure Deckshield PDS Membrane is thoroughly mixed together with the Flowfast Catalyst (50 % dibenzoyl peroxide), in accordance with the Catalyst addition rates on page 1. It should be noted that the amount of Catalyst powder to be added depends upon the application temperature.

## Application Temperature

The recommended material and substrate temperature is -5 - 35°C. If outside of these temperatures please consult Flowcrete.

The temperature of the substrate should exceed the "dew point" by 3°C during application and hardening.

## Application / Pot Life

Ready-mixed product should be used within 15 minutes at a temperature of 20°C. At higher temperatures (or if left in bucket) the application time is shorter.

Decant mixed product into smaller quantities if applying small/detailed areas.

## Application Method

Please refer to appropriate Deckshield Technical Data Sheet as per required specification.

## Cleaning

Tools and equipment can be cleaned with MEK/Acetone/Xylene. Please refer to SDS when using solvents.

## Additional Notes

1. The product has reached full cure after 2-3 hours at 20°C.
2. Do not cover or wash within the first 2 hours of curing at 20°C.
3. This system should be installed at 3°C above the dew point.
4. Please ensure application temperature and RH limits are followed.
5. Wind or strong airflow may cause quick curing and drying of the system.

6. Ensure wind or strong airflow is eliminated during application, however adequate safety ventilation should still be followed.
7. Whilst the product is low in VOC (<140 g/L complying with Green Building Council of Australia Green Star Design & As Built V1.2-13.1.1B Green Star Interiors V1.2-12.1.1B) this product will emit a discernible odour during application.
8. In closed rooms a forced ventilation with at least 7-fold air exchange per hour is recommended. To provide for an Outside these conditions, please contact our Technical Service.
9. Direct heat during application of the system can cause flash curing and potential delamination. Ensure you do not apply this system to substrates with temperatures exceeding 35°C.