



## Stone Surfacing for Exterior Applications

### Description

FlowStone™ is a thermal set 2 part UV stable polyurethane resin blended with a design mix of aggregates (typically 8mm-10mm) to create a continuous flexible stone surfacing system.

### Uses

FlowStone™ is ideal for urban tree pits, pedestrians and light vehicular use on footpaths, courtyards and anywhere permeability is required.

### Suitable Surfaces

FlowStone™ is designed to overlay well compacted free draining soils and aggregates, as well as on concrete or asphalt substrates. It is also available as a fully permeable surface over a crushed rock base.

Refer to Overlay of Asphalt and Concrete Specification Advice Sheets or Permeable Pavement Specification Advice Sheets for more detail.

### Safety

For detailed information refer to the Material Safety Data Sheet  
Wearing of gloves, goggles, overalls and safety footwear is highly recommended.

### Surface Preparation

All areas to be treated shall be well constructed layers of free draining material to local design specifications and performance requirements.  
All new concrete substrates must be subjected to a minimum curing period of 28 days. All concrete substrates must be primed with Rockseal Concrete Primer.

### Mixing

A cement mixer is required to blend the bagged aggregate. The part A and B resin is then mixed in a separate mixing vessel using an electric drill and paddle.  
Resin mix is then added to the cement mixer and combined with the aggregate. Once mixed it is dispensed to a wheelbarrow and taken to the work site ready for trowelling.

### Storage

All resins and aggregates must be stored in a clean and dry environment. Refer to storage instructions and use by date on kit for details.

### Application

FlowStone™ is hand trowel applied by trained and accredited applicators. Dispense mixed material. An asphalt rake, lute or gauge rake may be used to assist an even spread of material. Material should be trowel compacted to an even consistency and level.

The trowel should be regularly wiped clean to avoid resin build up and to achieve best results. At this stage dust with

glass for anti-slip finishes. Repeat process to completion.

Do not walk on surface until completely set and tack free. Do not traffic surface with vehicles for 3 days.

### Clean Up

White spirits is used for clean up.

### Coverage

Depth	Approx Coverage
15 mm	3.65 m <sup>2</sup>
20 mm	2.75 m <sup>2</sup>
30 mm	1.85 m <sup>2</sup>

Figures may vary depending on stone choice

### Technical Data

#### Standard Pack Size

100kg kit of Resin and Aggregate  
Other kit sizes available

#### Cure Time

Standard Grade 3- 5 hrs @ 20°C  
Other grades available

#### Application Conditions

- Ground temperature 5- 45°C
- No rain, showers or ambient humidity above 90%
- Not beyond Dew Point (refer to dew point calculator)
- Damp or wet surface

#### Performance Properties

Tensile Strength: 100Kn/m  
(When used with Fibregrid)  
UV Stability: 60%gloss > 90% @ 5yr  
(ASTM D523 Florida Gloss Retention)  
Permeability: 1000-2000mm/min.  
(AS/NZS 4456.16:1997)  
Typical Compressive Strength:  
FlowStone @ 30mm >1300Kn >25MPa

#### Fire Rating

ASISO 9239.1-2003

Reaction to Fire Tests for Floorings. Determination of the Burning Behaviour using a Radiant Heat Source.

#### CHF (Critical Heat Flux/ Critical Radiant Flux)

Non directional ≥ 11 kW/m<sup>2</sup>

#### Smoke Value

Non directional 5 % min

Tested by a NATA accredited laboratory in accordance with BSEN 13238-2001.

