

Flowfast Flexible Binder

Flowfast Flexible Binder is a methyl methacrylate polyurethane modified resin based on acrylic monomers and polymers.

Uses

Flowfast Flexible Binder is an elastified flexible and crack-bridging resin binder. It is mainly used for:

- Waterproofing and shockabsorbing membranes.
- Flexible floor coverings especially if exposed to low temperatures e.g. coolers and freezers.
- As a wearing layer for outdoor applications exposed to heavy mechanical loadings and rapid temperature variations i.e. ramps, bridges and carparks.

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 Binder allows for quick installation.



Crack-Bridging:

Flexible and crack-bridging even at low temperatures.

Packaging

The product is supplied in full units.

Flowfast Flexible Binder	20 kg	180 kg
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Catalyst Addition Rates

Temperature	Weight Percentage Hardener	Gram Hardener 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	1.50kg/m ²	m ² /Ltr
Mixed 1:1 with SNL Filler		

Curing Times (at 20 °C)

Min Overcoating	1 hour
Foot Traffic	1 hour
Vehicular Traffic	2-3 hours
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

VOC Content	86 g/L Complies with Green Building Council of Australia Green Star Design & As Built V1.2-13.1.1B Green Star Interiors V1.2-12.1.1B
Technical Characteristics Liquid State	
Density @ 25°C	Approx 0.99 g/ml (ISO 2811)
Viscosity @ 25°C	160-200 mPa·s (DIN 53019)
Technical Characteristics Cured State	
Tensile Strength	11.0 MPa @ 20°C (ISO 527)

Tensile Strength	20.6 MPa @ 0°C
Technical Characteristics Cured State Continued.	
Elongation	250% @ 20°C (at fracture)
Elongation	158% @ 0°C (at fracture)
Modulus of Elasticity	82.4 MPa @ 20°C
Modulus of Elasticity	407 MPa @ 0°C

Substrate Requirements

Concrete or screed substrate should be a minimum of 25 N/mm², 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.

Storage

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

Mixing

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

Prior to use, Flowfast Flexible Binder must be carefully stirred to achieve a uniform distribution of paraffin contained in the product.

Ensure Flowfast Flexible Binder 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 Flowfast 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.