Flowfast Flexible Sealer

Flowfast Flexible Sealer is a medium viscosity, UV-resistant, 2 component reactive methyl methacrylate resin (MMA).

Uses

Flowfast Flexible Sealer is used as part of the Deckshield Rapide and Flowfast range. In the liquid state it is blue-violet in colour. After polymerisation the sealer dries clear. Flowfast Flexible Sealer resists occasional hot water spillage up to 80°C. The flexibility and high UV resistance are also ideal for outdoor applications.

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 sealer allows for quick installation.

Roller Applied:
Easy to apply with excellent application properties.

Resistance:
Flexible with good UV resistance and suitable for surfaces with water loading.

Packaging

The product is supplied in full units.

Flowfast Flexible Sealer	20 kg	20 ltr

Catalyst Addition Rates

Temperature	Weight Percentage Hardener	Gram Hardener per 4kg
30 °C	1.0%	40g
20 °C	2.0%	80g
10 °C	3.0%	120g
0 °C	6.0%	240g
<0 °C*	6.0%	240g
*Please consult Flowcrete if applying below 0 °C		

Standard Coverage Rates

Over Ground Concrete		
First Coat	0.4kg/m^2 - 0.55kg/m^2	2.5m^2/Ltr - 1.8m^2/Ltr
Second Coat	0.25kg/m^2 -0.35kg/m^2	4m^2/Ltr - 2.85m^2/Ltr
*When applied over approx 0.6 - 1.0mm aggregate.		

Standard Coverage Rates

Over Flowcrete Terrosso Flake		
First Coat	0.25kg/m^2 - 0.35kg/m^2	4m^2/Ltr - 2.8m^2/Ltr
Second Coat	0.2kg/m^2	5m^2/Ltr

Standard Coverage Rates

Over Flowcrete Coloured Quartz		
First Coat	0.35kg/m^2	2.85m^2/Ltr
Second Coat	0.2kg/m^2	5m^2/Ltr

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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	33 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
Density @ 25°C	Approx 0.98 g/ml (DIN 53019)
Viscosity @ 25°C	160-200 mPa·s (DIN 51757)
Tensile Strength	13.4 N/mm^2 (DIN 53455)
Modulus of Elasticity	696 N/mm^2

Important Advice

A permanent hot water loading can result in a white discolouration of the Flowfast Flexible Sealer. Hot water causes thermal tensions, that can lead to cracks. Therefore, where Flowfast Flexible Sealer is used in areas of hot water loading, always gather waste or flowing water (particularly hot water) into channels and convey it into a proper drainage system. Provide for a sufficient number of gullies.

Substrate Requirements

Concrete or screed substrate should be a minimum of 25 N/mm^2, free from laitance, dust and other contamination. Any fresh Flowfast coating system must be completely cured and cooled down. Sealers can be applied in several layers.

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 Sealer must be carefully stirred to achieve a uniform distribution of paraffin contained in the product.

Ensure Flowfast Flexible Sealer 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.

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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. The applied colours may differ from the examples shown.
3. Flowcrete assumes no responsibility for the application of incorrect colour.
4. It is the applicators responsibility to verify accuracy of colour prior to application. Flowcrete does not bear any responsibility or accept claims for incorrect colour after application of material.
5. Do not cover or wash within the first 2 hours of curing at 20°C.
6. This system should be installed at 3°C above the dew point.
7. Please ensure application temperature and RH limits are followed.
8. Wind or strong airflow may cause quick curing and drying of the system.
9. Ensure wind or strong airflow is eliminated during application, however adequate safety ventilation should still be followed.
10. 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.
11. 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.
12. 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.

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