Flowtex F1 Mortar

A three component, solvent free, high strength multipurpose epoxy resin-based mortar.

Uses

Commonly used as a subfloor for resinous toppings where a high strength thin section screed is required. Can be laid to falls and feathered down to a minimum thickness of 1mm, maximum thickness of 50mm (in one application).

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.

Low Odour
Low odour and low taint.

Resistant
Durable, high strength abrasion and impact resistance.

Application Method
Easy to apply by steel trowel.

Bond Strength
Excellent bond strength.

Packaging

The product is supplied as:

Base A	Universal Resin GP
Hardener B	Universal Hardener GP
Filler C	Graded Quartz Aggregates

Standard Coverage Rates

For Every 1mm of Thickness Required	1.8kg/m²

Curing Times (at 25°C)

Max Overcoating	24 hours
Foot Traffic	18 hours
Vehicular Traffic	48 hours
Full Chemical Cure	7 days
*Full chemical resistance is acheived after 5-7 days.	

Additional Information

Density	Approx 1.8kg/l (combined)
Compressive Strength	> 55 N/mm²
Flexural Strength	> 20 N/mm²
Tensile Strength	> 8 N/mm²
Bond Strength	> than cohesive strength of concrete
Impact Resistance	Rated as excellent (0.9 kg steel sphere test).

Substrate Requirements

Concrete or screed substrate should be a minimum of 25 N/mm², free from laitence, dust and other contamination.

Substrate should be dry to 75% RH as per ASTM F2170 (AS1884:2012).

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Surface Preparation

Concrete should be finished by steel trowel. Surface preparation is to be completed by totally enclosed light shot blasting (please note this may leave track and blast lines which will not be covered) or diamond grinding to a minimum CSP3 prior to any coating application. For proper methods, refer to ICRI's Technical Guideline No. 03732. All cementitious laitance must be removed to expose a sound substrate and provide a dry, dust free, open textured surface. All hard to reach areas and areas around the perimeter must be prepared using hand held preparation equipment. Any damaged areas must be repaired with Flowtex F1 mortar. Consult Flowcrete prior to using an alternative repair mortar. Any rough or uneven areas must be made smooth with Flowcoat SC (Universal Resin Base A, Universal Hardener B, Sand/Flour).

Storage

Time	12 Months in Unopened Packs. If longer than 12 Months consult Flowcrete.
Temperature	Storage temperature between 5°C and 35°C.
Protection	Should be stored inside and protected from frost, weather, moisture, direct sunlight and contamination ingress.

Mixing

The product is supplied as follows:

Base A	Universal Resin GP
Hardener B	Universal Hardener GP
Filler C	Graded Quartz Aggregates

Stir Base A to re-disperse any settlement. Decant required amount of Base A into a clean container by weight using digital scales.

Add Hardener B to the Base A container, and drain thoroughly. Mix with a slow speed drill and helical spinner head for 60 seconds, taking care not to entrain air. Add Filler C and mix with a heavy duty slow speed drill and helical spinner head or a forced action mixer until uniform.

Solvent

Solvent should not be added to the Flowtex F1 Mortar.

Application Temperature

The recommended material and substrate temperature is 10 - 35°C, but no less than 10°C. The temperature of the substrate should exceed the "dew point" by 3°C during application and hardening.
Temperatures should not fall below 5°C in the 24hrs after application.

Application / Pot Life

Ready-mixed product should be used within 40 minutes at a temperature of 25°C. At higher temperatures (or if left in bucket) the application time is shorter.

Priming

Use Flowprime AU refer to PDS.

Application Method

Immediately after mixing, place on the wet/tacky or dry seeded primer and spread out to give a uniform finish. Use a steel bladed trowel to finish.

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Sealing

If sealing, sealer must be applied within 24 @ 20°C. Refer to Flowcrete Technical team for suitable sealing products.

Additional Notes

1. Please refer to the appropriate product Technical Data Sheet. The Product Data Sheet, Technical Data Sheet and Safety Data Sheet must be read in conjunction with one another.
2. Maximum overcoat time is 24 hours at 20°C.
3. The product has reached full chemical cure after 7days at 20°C.
4. The applied colours may differ from the examples shown.
5. Light and vibrant colours may require additional coats to achieve desired results.
6. Flowcrete assumes no responsibility for the application of incorrect colour.
7. 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.
8. It is recommended that top coat colours match base coat colours to achieve desired results.
9. This system is not UV stable and will discolour unless otherwise stated.
10. This system should have no contact with water for 5 days at 20°C or blooming may occur.
11. This system should be installed at 3°C above the dew point.
12. A low temperature/high humidity environment can cause blooming issues.
13. Please ensure application temperature and RH limits are followed.
14. Wind or strong airflow may cause quick curing and drying of the system.
15. Ensure wind or strong airflow is eliminated during application, however adequate safety ventilation should still be followed.
16. Direct heat during application of the system can cause flash curing and potential delamination.
17. Ensure you do not apply this system to substrates with temperatures exceeding 35°C.
18. The specific slip test rating (P0-P5 range) noted in this document is based on the system design, products listed, coverage rates and specific aggregate outlined in this document. This slip test rating can and will change if the standard specification details or installation methods are altered in any way. The specific slip rating (P0-P5 range) noted in this document is based on 96 Rubber slide testing on level non-inclined surfaces. Applicators should refer to methods outlined in AS4586-2013 and SA HB 198:2014.

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