Universal Resin

Flowcrete Universal Resin is a high performance, low viscosity, solvent free epoxy resin based on advance resin technology.

Uses

Is a multipurpose epoxy resin which is used in combination with Flowcrete's auxillary products including but not limited to, self-smoothing finishes, coving mortars, screeds and coatings.

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.

Multipurpose:

Can be used in a variety of epoxy resin flooring systems.

Advanced Technology:

Formulated using advanced resin technology to provide high performance floor finishes.

Easy to Use:

The formulated resin provides excellent application properties.

Packaging

The product is supplied in full units as a 2 component pack.

Universal Resin 708	20 kg 1000 kg	18.2 Ltr 909 Ltr
Universal Hardener B (W)	20 kg 1000 kg	19 Ltr 952 Ltr

Standard Mix Ratios

General Purpose Resin	Mix Ratio kg	Mix Ratio Ltr
Universal Base A 708	2 kg	1.8 Ltr
Universal Hardener B (W)	1 kg	0.95 Ltr

Standard Coverage Rates

Flowshield SL 2mm	kg/m²	m²/Ltr
Universal Base A 708	1.18	1.07
Universal Hardener B (W)	0.59	0.56
Filler C	1.76	1.1
Epoxy Pigment*	0.07	0.046
Flowshield SL 3mm	kg/m²	m²/Ltr
Universal Base A 708	1.41	1.28
Universal Hardener B (W)	0.70	0.66
Filler C	3.18	2.0
Epoxy Pigment*	0.10	0.067
Flowtex F1 Coving/Mortar	kg/m²	
Universal Base A 708	2.0	
Universal Hardener B (W)	1.0	
Filler C	30.0	
Flowcoat SC	kg/m²	
Universal Base A 708	2.0	
Universal Hardener B (W)	1.0	
Filler C	3.0	

* Light colours may require a higher dose.

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Curing Times (at 20˚C)

Min Overcoating	8 hours
Max Overcoating	24 hours
Foot Traffic	24 hours
Vehicular Traffic	72 hours
Full Chemical Cure	7 days

*Full chemical resistance is acheived after 5-7 days.
** Do not cover or wash within the first 36 hours of curing.

Additional Information

VOC Content	36 g/L * Green Building Council of Australia Green Star Design & As Built V1.2-13.1.1B Green Star Interiors V1.2-12.1.1B
*Based on Universal Resin 708 A and Universal Hardener B (W) Combined	
Density	Approx 1.10 kg/l (combined)*
Solids Content	Approx 100% (by weight)
Colour	Refer to Industrial TDS

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).

Surface Preparation

Refer to appropriate system Technical Data Sheet.

Mixing

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 as required (refer to appropriate PDS).

Application Method

Refer to appropriate system Technical Data Sheet.

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.

Application Temperature

The recommended material and substrate temperature is 15 - 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 20 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.

Cleaning

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

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.

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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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