Flowfast Application Data

Application instructions

Preparation/Substrate

Surfaces to be coated should be sound and provide adequate strength for the proposed end use. If in doubt, check the integrity with a bond tester - minimum requirement for tensile strength is 2.0 N/mm^2 and compressive strength is 25N/mm²/25mPa. The surface profile and levels should be appropriate for the system to be applied. Max permitted RH within the sub-floor should be 90%. Use Flowfast 108 primer for higher moisture. Use Flowfast 107 for ceramic tiles and metal surfaces, and 106 for asphalt.
Blasting, scarifying or diamond grinding should be adopted to remove laitance. Irregularities, damage and cracks should be filled. Contact us for advice if there are contaminants, such as oils or soaps etc. impregnated within the sub-floor.

Primer

Priming with Flowfast 101/108/107
Stir the Flowfast resin to re-disperse any separation in the liquid during transport. Decant enough material that can be applied and finished within 5 minutes. Add Flowfast catalyst to the resin at a rate of 1% (typically) by weight of the resin. Mix the catalyst into the resin until homogenous (1-2 minutes until the catalyst dissolves). Pour enough material onto the floor as for the appropriate area. Finish to the correct coverage using a squeegee and medium pile roller.

Flowfast 101/107/108	5 kgs	
Flowfast Catalyst	50grams	(Suggested mix - enough to prime 10-15m^2, dependant on porosity / profile)

Mixing machine: Drill + steel paddle.

It is important that the primer forms a continuous resin rich layer. If the primer is absorbed into the substrate, or there are dry patches, the primer will not cure. In which case a second coat of primer will need to be applied, which will harden the first. Sprinkled 0.4-0.8mm natural quartz into the wet primer. Allow the primer to harden until the surface can be walked on (approx. 40 minutes at 18°C). At lower temperatures the hardening time is longer.

Application of Flowfast SL bodycoat

Stir the Flowfast 205 resin to re-disperse any separation in the liquid during transport. Decant enough material that can be applied and finished within 10 minutes. Add the Flowfast Powder Pigment and Flowfast SNL Filler into the Flowfast 205 and mix well. Add Flowfast catalyst to the resin at a rate of 2% (typically) by weight of the resin. Mix the catalyst into the resin powder blend until homogenous (1 minute until the catalyst dissolves).

4mm system

Flowfast 205 @ 1.5 kg/m^2 ***mixed with:***
Flowfast Pigment Powder @ 3% weight of Flowfast Resin
Flowfast SNL Filler @ 3.0 kg/m^2

Flowfast 205	12.5 kgs	Suggested mix size to use a full bag of SNL filler
Flowfast Pigment Powder	0.375kgs	
Flowfast SNL Filler	25 kgs	
Flowfast Catalyst	125 grams	
		This mix size is sufficient for 8.5m^2
Flowfast Flakes or Metalik or Kristalina Flakes	0.5kgs	Scatter to full cover while the bodycoat is still wet (typically within 10mins of application)

Mixing machine: Drill + spiral steel paddle

Apply the mixed product by saw toothed rake to the required coverage rate or a trowel and spike roll to achieve a smooth finish. Fully scatter with Flowfast flakes ensuring full cover. The compound should harden for at least 40 minutes. before removing the excess flake by

Topcoat / sealer

Before applying the topcoat, the floor should be carefully vacuumed to remove all the loose Flakes.

Stir the Flowfast 307 resin to re-disperse any separation in the liquid during transport. Decant enough material that can be applied and finished within 5 minutes. Add Flowfast catalyst to the resin at a rate of 1% (typically) by weight of the resin. Mix the catalyst into the resin until homogenous (1-2 minutes until the catalyst dissolves).

Flowfast 307	5 kgs	
Flowfast Catalyst	50 grams	(Suggested mix - enough to seal 25m^2)

Mixing machine: Drill + steel paddle.

Apply a layer of Flowfast 307 onto the Flake surface using a medium pile roller and a paint tray / scuttle. Use high quality rollers to avoid “fluff.

For a smoother final finish abrade between seal coats using an STR orbital grinder fitted with silicon pads approximately 60 mesh

A second and third coat of seal can be applied to reduce the surface texture.

Note that:

Flowcrete products are often multiple-component systems. Poor mixing, or incorrect mixing procedures, can result in an inferior final result.

Conditions of high humidity combined with sudden falls in temperature should be avoided during the cure period as this can lead to condensation effects such as carbamation and blooming – whilst not deleterious over the performance of this system, this can cause an impaired surface finish. The temperature of the substrate should exceed the “dew point” by more than 3^{0}C during application and hardening.

Flowcrete SA (Pty) Ltd (2003/029560/07)
176 Voortrekker Street Jacobs 4052 Durban
Tel: +27 31 461 3411 Fax: +27 31 461 3475
47 Forge Road Spartan Kempton Park 1619 Johannesburg
Tel: +27 11 394 1980 Fax: +27 11 394 3003
Unit 5 55 Manhattan Street Boquinar Industrial Area Matroosfontein 7490 Cape Town
Tel: 0861 00 7703 | +27 21 385 0653 Fax: 0865 83 8358
Email: southafrica@flowcrete.com
Directors: C Blitenthall, A Naidoo Non Executive Directors: M.D Greaves, D.P Reif, C.E Brooks
Flowcrete SA (Pty) Ltd is an RPM Company

The products should be stored in such a way that the temperature is the same as the room temperature where they are to be applied, i.e. within the interval 15-25ºC . This improves the mixing, flow, penetration and hardening of the product.

The surface can normally be walked on after approx. 40 minutes at 18ºC.
Complete hardening takes 5-7 days (chemical cure).

There are often several types of products at a workplace. Sort the products separately to avoid mistakes.

Consumption of materials (average 4 mm)

Primer	Flowfast 101	0.3 - 0.5 kg/m^2
	Flowfast Catalyst	1% by weight of resin
Scatter	Natural Quartz 0.4-0.8mm	0.3 kg/m^2
Bodycoat	Flowfast 205	1.5 kg/m^2
	Flowfast Catalyst	1% by weight of resin
	Flowfast Pigment Powder	3% by weight of resin
	Flowfast SNL Filler	3.0kg/m^2
Topcoat	Flowfast 307	0.2 kg/m^2
	Flowfast Catalyst	1% by weight of resin
2nd coat for lighter texture	Flowfast 307	0.2 kg/m^2
(optional)	Flowfast Catalyst	1% by weight of resin
3rd coat for lighter texture/smooth finish	Flowfast 307	0.2 kg/m^2
(optional)	Flowfast Catalyst	1% by weight of resin

Cleaning of tools
Cleaned directly after use with Flowfast 405.

The technical data we provide, including our instructions and recommendations, are all based on extensive tests and on our own experience. They are intended to help the use to find the most suitable work method and to achieve the best possible results. Since the working conditions of the user are outside out control, we cannot assume any responsibility for the results achieved when using the product.

Flowcrete SA (Pty) Ltd (2003/029560/07)
176 Voortrekker Street Jacobs 4052 Durban
Tel: +27 31 461 3411 Fax: +27 31 461 3475
47 Forge Road Spartan Kempton Park 1619 Johannesburg
Tel: +27 11 394 1980 Fax: +27 11 394 3003
Unit 5 55 Manhattan Street Boquinar Industrial Area Matroosfontein 7490 Cape Town
Tel: 0861 00 7703 | +27 21 385 0653 Fax: 0865 83 8358
Email: southafrica@flowcrete.com
Directors: C Blitenthall, A Naidoo Non Executive Directors: M.D Greaves, D.P Reif, C.E Brooks
Flowcrete SA (Pty) Ltd is an RPM Company