Naturewalk

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 1.5 N/mm^2 (1.8 N/mm^2 for heavy loads). The surface profile and levels should be appropriate for the system to be applied. Max permitted RH within the sub-floor should be 75%. 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.
Stir the Flowfast 101 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	5 kgs	
Flowfast Catalyst	50grams	(Suggested mix - enough to prime 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.
Sprinkle 0.4-0.8mm natural quartz into the wet primer, approximately 0.3kg/m2.
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 SNL 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).

3mm system

Flowfast 205 - 5L mixed ***with:***
Flowfast Pigment Powder @ 3% weight of Flowfast Resin (150gms)
Flowfast SNL Filler 12kg

Flowfast 205	5 kg	Suggested mix size to use a full bag of SNL filler
Flowfast Pigment Powder	0.150kgs	
Flowfast SNL Filler	12 kg	
Flowfast Catalyst	200 grams	This mix size is sufficient for 9m^2
Quartz scatter aggregate	2kg/m2	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 aggregate ensuring full cover. The compound should harden for at least 40 minutes. Before removing the excess aggregate by vacuum

Topcoat / sealer
Before applying the topcoat, the floor should be carefully vacuumed to remove all the loose aggregate.

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 0.8% (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 BPO catalyst	40 grams	(Suggested mix - enough to seal 20-25m^2 per coat)
Mixing machine:	Drill + steel paddle.	

Apply a layer of Flowfast 307 onto the scatter 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 carbonation 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 3^0C during application and hardening.

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 18°C.
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 3 mm)

Primer	Flowfast 101	0.3 - 0.5 kg/m^2
	Flowfast Catalyst	2% by weight of resin
Scatter	Natural Quartz 0.4-0.8mm	0.3 kg/m^2
Bodycoat	Flowfast 205	0.6 kg/m^2
	Flowfast Catalyst	2% by weight of resin
	Flowfast Pigment Powder	3% by weight of resin
	Flowfast SNL Filler	1.2kg/m^2
Topcoat	Flowfast 307	0.25 kg/m^2
	Flowfast Catalyst	0.8% by weight of resin
2nd coat for lighter texture	Flowfast 307	0.2 kg/m^2
(optional)	Flowfast Catalyst	0.8% by weight of resin
3rd coat for lighter texture/smooth finish	Flowfast 307	0.2 kg/m^2
(optional)	Flowfast Catalyst	0.8% by weight of resin

Flowfast Catalyst Addition Rates

Temp	Flowfast 101 and 205	Flowfast 307
At 30°C	Add 2% by weight of resin	Add 0.6% by weight of resin
At 20°C	Add 3% by weight of resin	Add 1% by weight of resin
At 10°C	Add 4% by weight of resin	Add 1.5% by weight of resin
At 0°C	Add 5% by weight of resin	Add 3% 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.