

Flowcoat SF41

Application instructions

Preparation/Substrate

Surfaces to be coated should be sound and provide adequate strength for the proposed end use (minimum 25 N/mm² compressive strength).

The surface profile and levels should be appropriate for the system to be applied. Substrate humidity must not exceed 75% RH, in which case use Hydraseal DPM.

Blasting, scouring or diamond grinding removes laitance. Irregularities, damage and cracks are filled with epoxy filler. All residues must be removed to provide a dry, dust free open textured surface.

Contact us for advice if there are impurities, such as oils etc., in the concrete. Check the relative humidity of floors at ground level. Follow our instructions for connections to grid drains, cesspools, pipes and pipe inlets.

Primer

Application on an untreated, porous concrete surface can cause air bubbles and in the finished coating. To avoid this, prime the floor using an additional coat of Flowcoat SF41 or Flowprime.

Pour Hardener B into the packaging holding Base A and completely pour out the resultant mixture. Mix using a low-speed drill and stirrer until a homogenous mixture is obtained. Do not mix in too much air.

Allow the primer to harden until the surface can be walked on, approx. 15 hours at 20°C. At lower temperatures the hardening time is longer. It is important there are no dry patches. If in doubt, check the adhesion using an adhesion tester. Minimum requirement 1.5 MPa (1.8 MPa for heavy stress).

Apply immediately after mixing using a double-lipped rubber squeegee and/or roller. Ensure that the primer permeates any surface irregularities.

Consumption, primer: approx. 0.3 kg/m².

Note: Hydraseal DPM is to be used as the primer in instances where the substrate exceeds 75% RH; refer to the separate application instruction for more information.

Mixing

Flowcoat SF41 is supplied in complete batches, A+B. The coloured Base A must be stirred well. Transfer Hardener B to Base A. Mix thoroughly using a low-speed drill for 1-2 minutes. Thoroughly stir. The mixed material should be used within 30 minutes at 20°C.

Remember never to split batches/components. Incorrect mixing ratios or poor mixing can result in irregular hardening or variations in colour, etc.

Application

Flowcoat SF41 is applied using a squeegee and finished with a roller.

The product can be applied in one (thick) coat or two coats. The second coat is applied after at least 10 hours, and no later than 24 hours after the first coat.

Note: Use a high-quality roller to avoid “fluff”.

If anti-slip protection is required, natural sand can be sprinkled into the first layer. Before applying the topcoat, lightly scour the surface and vacuum the floor thoroughly. Complete the process by applying a flood layer of Flowcoat SF41.

The degree of anti-slip protection should be discussed with the customer before application.

A layer of sand increases the surface profile and hence the coverage so more material is required on the second coat.

Note that:

Concrete is a very porous material; as it warms during the day it “outgases” (expels air).

A coating applied while the concrete is out gassing is likely to develop bubbles and pinholes.

To avoid this, the material should be applied when the temperature of the concrete substrate is static or falling (usually this is from late afternoon into the night).

Stop applying the material well before dawn, so it has time to set up (firm to the touch) before out gassing begins. This may be anywhere from 1 to 6 hours, depending upon the weather conditions and the product applied. In addition, it is a good idea to shade the work area from direct sunlight.

An additional priming process may be required in situations where out gassing could be a problem. Consult Flowcrete for priming recommendations.

Flowcrete products are often multiple-component systems. Poor mixing, or incorrect mixing procedures, can result in irregular and incomplete hardening, which in turn can result in an inferior final result.

Coloured Base A is stirred first before Hardener B is added.

The temperature should be over 15°C to achieve the best results during application. The temperature of the substrate should be at least 10°C, although a temperature of 15-25°C is recommended.

The temperature of the substrate should exceed the “dew point” by more than 3°C during application and hardening.

The product should be stored in such a way that the temperature is the same as the room temperature where the product is to be applied, i.e. between 15-25°C. This improves the mixing, flow, penetration and hardening of the product.

The surface can normally be walked on after approx. 15 hours at 20°C. Complete hardening takes 5-7 days.

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

Consumption/Ratio of Components

Flowcoat SF41

Consumption of Materials approx 0.25 kg /coat x m² or (may vary depending on the substrate)
approx 0.5 kg /m² (in one coat, may vary depending on the substrate)

Ratio of Components	weight	volume
A:B	4.2:1	2.8:1

Cleaning of Tools

Cleaned immediately after use in solvent, e.g. Flowsolve Cleaner or Acetone.

Any suggested practices or installation specifications for the composite floor or wall system (as opposed to individual product performance specifications) included in this communication (or any other) from Flowcrete UK Ltd constitute potential options only and do not constitute nor replace professional advice in such regard. Flowcrete UK Ltd recommends any customer seek independent advice from a qualified consultant prior to reaching any decision on design, installation or otherwise.

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