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EN 1504-2

Flowseal EPW

Application instructions

Preparation/Substrate

The surface profile and levels should be appropriate for the system to be applied. Substrate humidity must not exceed 97% RH (surface dry).

Flowseal EPW can be applied on all solid, stable surfaces that enable adhesion. In general the best adhesion is obtained on direct contact with clean concrete, without adhesion inhibiting layers. For this reason laitance is removed by diamond-grinding and thorough vacuum cleaning. The same applies to membrane hardener or other layers that prevent direct adhesion to clean concrete. Old floors are scoured and vacuum cleaned. Contact us for advice if there are contaminants, such as oils etc., in the concrete.

Mixing

Flowseal EPW is supplied in complete batches, A+B.

Transfer Base A into Hardener B and mix thoroughly against the bottom and edges of the vessel.
When thoroughly mixed, application and coverage rates are assisted by the addition of water:-

- 20% water by weight of the unit (A+B) **must** be added to the mixed product for first coats and priming.
- 10% water by weight of the unit (A+B) **must** be added to the mixed product for subsequent coats.

Notes: Once diluted, do **not** add further quantities of water. Mixed material should be used within 40 minutes and not be further diluted with water once the 40 minutes have elapsed.

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

Application

Flowseal EPW is applied with a roller and/or rubber squeegee. The topcoat is applied when the first coat is dry. The topcoat should be applied after at least 12 hours, and no later than 24 hours after the first coat at a temperature range of 15-25°C.

Notes: Make sure there is good ventilation; otherwise there is a risk of matt patches.
Low relative humidity, maximum 70%, and good ventilation are prerequisites to achieve the above drying times.
The surface can normally be walked on after approx. 12 hours at 20°C.
Complete hardening takes 5-7 days.
Do not cover within the first 24 hours of curing.
Do not apply at temperatures over 25°C.

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.

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.

Make sure there is good ventilation. This accelerates hardening and improves the finish of the product. Max. permitted relative humidity is 70%.

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

Consumption/Ratio of Components

Flowseal EPW Gloss

Consumption of Materials approx. 0.1 – 0.2 kg/m^2 per coat (may vary depending on the substrate)

Ratio of Components	By Weight	1:3.3
	By Volume	1:2.8

Flowseal EPW Matt

Consumption of Materials approx. 0.1 – 0.2 kg/m^2 per coat (may vary depending on the substrate)

Ratio of Components	By Weight	1:2.3
	By Volume	1:1.8

Cleaning of Tools

Cleaned with soap and hot water.

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