

Flowseal PU Matt (Ultra)

Product sheet

Product description

A 2-component polyurethane-based clear sealer with an extremely hardwearing matt finish. Less than 10% Specular gloss at 60° measurement angle.

Uses

As a protective coating for Flowcrete screeds, toppings and third party resilient floorings.

Note: Contact Flowcrete Technical Department to clarify suitability with specific safety floor coverings prior to use, i.e. surfaces with a distinct structural pattern/knobbed floorings. This product is not suitable for conductive floorings if conductivity is to be maintained.

Environment & Health

The hardener contains isocyanates, 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.

Ratio of components

10 parts of component A are mixed with 1 part of component B, by weight.

Preparation

Any underfloor heating should be turned off well in advance of the application and allowed to cool.

The existing flooring must be thoroughly cleaned and dry prior to sealing. The surface should be stripped of all dust, grease, oil, wax and care product residues (e.g. floor polishes) using a single disc rotary appliance fitted with a new grey PU-renovation pad. If the flooring is treated with a removable protective factory finish, the finish must also be removed completely.

For subsequent surface renewal, abrade and matt down the existing Flowseal PU Matt (Ultra) with a new grey PU-renovation pad (50 to 100 m² /pad) to achieve adhesion.

Mixing of components

Thoroughly shake the Base and Hardener components prior to mixing. Decant all of the Base A component into a suitable mixing vessel and then add all of Hardener B. Mix with a slow speed drill and helical spinner, taking care to minimise air entrainment.

Application

Distribute evenly in consistent layer thickness, not exceeding 100µ, to ensure a consistent bubble-free finish. Use a paint tray, a short pile high quality microfiber roller (avoid using rollers containing loose fibres i.e. must be fluff free e.g. Aquatop 10 mm roller) and finish within five minutes of applying to the floor. Do not pour product directly on to substrate and avoid ponding.

After allowing the surface to dry (at least 2 hours, but within the same day) a second application can be made. Consumption approx: 100g/m², applied in one or two coats.

Note: If working in an area with a large window or light source, start at that point and work away, using the light cast from behind to aid even and complete application.
For best results apply two coats; the first should be applied in one direction e.g. north to south and the second coat at 90° to the first e.g. east to west.

Application temperature and humidity

The recommended substrate and air temperature is 15 - 25°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 10°C in the 24hrs after application.
Ambient humidity should be between 30 and 75% RH during application and cure.

Working time/pot life

Ready-mixed product **must** be used within 4 hours at a temperature of 20°C.
At higher temperatures the application time is shorter.
Ensure there is sufficient ventilation, but avoid drafts and direct sunlight during the application and drying process.

Curing time (at 50% RH)	20°C	Overcoat times	20°C
Light foot traffic	12 - 14 hours	Minimum	2 hours
Full traffic	2 - 3 days	Maximum	8 hours
Full chemical cure	7 days		

Good ventilation and the correct humidity are prerequisites to achieve the above drying times.
Ambient humidity should be between 30 and 75% RH during application and cure.
High humidity in the early stages of cure can result in extended cure times.
Do not cover or wash within the first 7 days of curing.

Note, breathable floor protection may be used after 12 - 14 hours.

Note: Severe mechanical damage can accelerate wear or damage to the sealer. Intensively coloured products (e.g. hair colorants, medical disinfectants etc.) and plasticizer migration (e.g. from rubber tyres) can lead to irreversible discoloration in the sealer. In these instances, please use Flowseal PU Anti-Stain and consult Technical Services for further details.

Solids Content

45%

Density

Component A approx. 1.04 kg/litre.
Component B approx. 1.07 kg/litre.
A+B approx. 1.045 kg/litre.

Storage

12 months in unopened pack when stored at 5°C to 25°C in original unopened containers.
Once opened, all the Hardener container must be used that day - reacts with atmospheric moisture.
Protect from frost, weather and moisture or contaminant ingress.

Packaging

The product is delivered A+B in the following packs:

Unit	Flowseal PU Matt (Ultra) Base A	Flowseal PU Matt (Ultra) Hardener B
(5.5 litres)	5 litres	500 ml (0.5 L)

CE Mark – for details see the Declaration of Performance.

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.