

Flowseal PU Matt (Ultra)

Application instructions

Preparation/Substrate

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

Flowseal PU Matt (Ultra) is supplied in complete units, A+B.

Thoroughly shake the Base and Hardener components prior to mixing.

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

If improved slip resistance is required, PU Anti-Slip Additive (first coat only) can be added to the Base A in a suitable mixing vessel and mixed with a slow speed drill and helical spinner, taking care to minimise air entrainment. Once fully dispersed add all of Hardener B and continue mixing until well blended.

Note: Re-agitate the mix at regular intervals to prevent settling of the Anti-Slip Additive.

Do not add PU Anti-Slip Additive to the second coat of sealer.

Application

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). Distribute evenly in consistent layer thickness, not exceeding 100µ, to ensure a consistent bubble-free finish and finish within five minutes of applying to the floor. Do not pour product directly on to substrate and avoid ponding.

Apply only enough product to enable an open wet edge of 10 minutes to be maintained.

Note: Mixed material should be used within 4 hours.

After allowing the surface to dry (at least 2 hours, but within the same day) the second coat can be applied.

Consumption, Flowseal PU Matt (Ultra), approx: 0.1 kg/m², applied in one or two coats.

Consumption, Flowseal PU Matt (Ultra) with Anti-Slip

1st coat Flowseal PU Matt (Ultra) + PU Anti-Slip Additive, approx 0.05 kg/m² mixture

2nd coat Flowseal PU Matt (Ultra) approx: 0.05 kg/m²

3rd coat Flowseal PU Matt (Ultra) approx: 0.05 kg/m² (optional for reduced texture)

Note: Too many layers of Flowseal PU Matt (Ultra) will lead to a cloudy finish.

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.

Drying/Curing Requirements:

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.
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 at 20°C.

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		

In order to ensure the fastest possible water release from the applied product it is essential to provide a well ventilated environment which reduces ambient humidity and avoids condensation problems related to dew point temperature. Additionally, it is essential to avoid the spilling of liquids onto the applied product during the initial cure period.

Note that :

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 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.

There are often several types of product on a worksite. Sort out and store the products separately to avoid mixing mistakes.

Natural changes in colour are possible (matt sealers have a slight lightening effect on the basecoat colour) and do not represent any reduction in performance.

Adhesive tapes (e.g. for taping down covers, or for marking sports floors) should not be used until the sealer has hardened completely (after 7 days). Use only suitable adhesive tapes (e.g. Kipp Fineline-Special_Paper, 3M Goldband) and follow the instructions of the manufacturer. Improper use (e.g. over a longer period of time) can lead to the sealer peeling off. Avoid any additional pressures on the adhesive tapes, e.g. do not walk on them. As soon as the adhesive tapes have served their purpose in the completion of work, they should be carefully removed flat from the floor.

Carpets should not be laid on the sealed surface until after about 7 days hardening.

Anti-slip carpet underlays with rubber backing can contain plasticizers which can cause marking on the sealer surface.

When using chairs with castors, these must conform to the European Norm EN 12539 (Type W); otherwise suitable protective mats are required to safeguard the floor.

In the case of movable furniture (chairs, tables, etc.) the underside of the legs must be fitted with suitable gliders (e.g. Teflon-glider/magiGLIDETM).

Chemical coloration can penetrate into the Flowseal PU Matt (Ultra). Flowseal PU Anti-Stain offers the optimal protection against discolouring chemicals.

Sealed surfaces inevitably experience scratching, or other damage from mechanical influences during use, and must therefore be renovated before progressive failure occurs.

Seams and gaps filled with silicone cannot be properly sealed with Flowseal PU Matt (Ultra) because adhesion will not be optimal.

Consumption/Ratio of components

Flowseal PU Matt (Ultra)

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approx: 0.1 kg/m², applied in one or two coats.

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Ratio of Components	weight	volume
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A:B	10:1	10:1
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Cleaning of Tools

Cold soapy water may be used to clean mixed product from tools.

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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