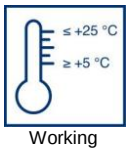
Technical Data Sheet
Art. No. 2830

Multiplan

Hydraulic, fast setting, self-levelling, floor levelling compound


For floor surfaces indoors and outdoors

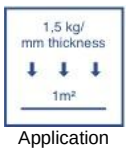
Dry mortar / water



Working temperature

Mixing time


Mortar cover / flow coating / applied standing



Application rate per mm thick layer

Shelf-life


Protect from moisture

Range of use

Early loadable, self-levelling, floor levelling compound for use indoors and outdoors:

- In residential areas for garages, basements and workshops on concrete and cement screed
- For levelling substrates before laying floor covers (tiles, carpeting, parquet, coatings, etc.) on concrete and cement screed
- As a wearing layer in residential and trade buildings on concrete and cement screeds

In case of very high mechanical loads (e.g. transport vehicles with hard tyres), the surface should be coated with a suitable protective layer or Remmers Multiplan SIC (Art. No. 2804).

Apply Multiplan in a layer from seamless to 15 mm thick; individual indentations up to 30 mm can be closed at the same time. Non-absorbent substrates such as poured asphalt, ceramic or natural stone floor covers as well as wood floors should be levelled with Remmers Uniplan (Art. No. 2824).

Produktkenndaten

Colour:	grey
Bulk density:	1.4 kg/l powder
Working time:	approx. 20 min. (depending on temp.)
Apparent density of set mortar:	approx. 1.9 kg/dm³
Compressive strength after 28 days:	approx. 25 N/mm²
Vehicle traffic:	after 48 hours with soft tyres

Property profile

Remmers Multiplan is a polymer modified, water resistant, cementitious floor levelling compound with mineral fillers and special additives that is ready-to-use after mixing with water. Multiplan can be worked by hand or with conventional pumping machines in conjunction with a positive mixer. The levelling mortar levels itself and forms a seamless, smooth surface. Special properties of the product:

- Easy to mix and distribute (can be pumped)
- Good flow properties
- Little inherent stress, sets crack-free and bonds tightly
- Very low inherent stress, crack-free hardening and good adhesive bond
- Sets quickly, foot traffic after 3-4 hours
- Tiles and slabs can be laid after 4-6 hours
- Ideal for levelling floors when renewing floor covers

Substrate

The substrate must be load-bearing and free of substances that could interfere with adhesion. If necessary, prepare by suitable means (e.g. steel shot blasting, milling or brushing). In case of vehicle traffic or layers thicker than 10 mm, the substrate must always be mechanically roughened. Remove dust afterward with an industrial vacuum cleaner, then prime the substrate. When used as a direct wearing layer and for surfaces with mechanical loads, a

Remmers GmbH 49624 Löningen Tel 05432/83-0 Fax: 05432/3985 www.remmers.de

pore-filling epoxy resin primer, e.g. Epoxy ST 100 (Art. No. 1160) broadcast with quartz sand (0.7 - 1.2 mm, Art. No. 4408) using approx. 1 kg/m² is recommended. When used indirectly, prime with Haftfest (Art. No. 0220) diluted 1 : 3 with water. Poorly absorbent concrete and cement screed substrates should be primed with Deep Primer W (Art. No. 2842). Avoid the formation of pools.
Observe the respective Technical Data Sheets.
Fill edge and field joints with strips of foamed insulation material to prevent the levelling compound from running into the joints. Do not apply to heated substrates.

Directions

Pour **approx. 4.8 litres of water** into a clean container (mortar tub) and add **25 kg Multiplan**. When applying thin layers (≤ 5 mm), the quantity of water can be increased to 5 litres. Mix Multiplan thoroughly with a mixer/mixing paddle, e.g. a BEBA mixer or a drill with a spiral mixing tool for at least 3 min. until the mortar is homogenous. Directly after mixing, pour the material onto the prepared substrate in the desired layer thickness and distribute with a blade or toothed rubber wiper. Work individual mixtures continuously to avoid seams. Rolling the surface with a spiked roller immediately after distribution reduces the time needed for working and helps create practically mirror-smooth surfaces by improving deairing of the material. For layers up to approx. 5 mm thick, use a spiked roller with 21 mm spikes (Art. No. 5038) and 35 mm spikes (Art. No. 5557) for thicker layers. For larger surfaces (more than 500 m²), we recommend the use of a positive mixer with a pump, e.g. mixing pump m-tec duo Mix 2000. When worked by machine, the layer must be at least 5 mm thick. In case of standing times of more than 20 min., empty pump hoses and rinse out thoroughly with water. **Do not use continuous mixers.**

Notes

There may be slight deviations in water requirements due to the natural fillers used. This can also lead to differences in colour or floating effects. We therefore recommend an additional cover for areas where appearance is important.
Initially set mortar cannot be made workable by adding water or fresh mortar.
Do not use if the temperature of the air, substrate or building material is below + 5 °C or above + 25 °C. The values given were determined under laboratory conditions at 20 °C and 65 % humidity. Lower temperatures increase, higher temperatures reduce working time.
May contain traces of pyrite or iron sulphide.
Protect Multiplan from drying out too quickly in wind or sun. Covers that are sensitive to moisture and sealants should only be applied after the coating has dried (depending on temperature,
3-4 days, with a residual moisture content of < 3% by weight).
In some cases, there may be a light layer of sinter due to the way the material was worked. This layer should be removed by light sanding and vacuuming before coating.
The state of the surface of mineral systems depends on the way the material was applied, drying conditions and the thickness of the layer and may therefore differ from samples or sample surfaces.

Tools, cleaning

Drill with spiral mixing tool, BEBA mixing equipment or positive mixer, pumping machines with positive mixer, transport/pouring tub, blade or rubber wiper, spiked roller
Clean tools and equipment with water while the material is still fresh.

Packaging, application rate, storage

Packaging:
25 kg paper bags
Application rate:
Approx. 1.5 kg/m²/mm thick layer
Shelf-life:
Approx. 12 months stored dry in closed bags.

Safety, ecology, disposal

Further information concerning safety during transport, storage and handling as well as on disposal and ecology is found in the latest Safety Data Sheet.

CE

Remmers GmbH
Bernhard-Remmers-Str.13
D – 49624 Löningen
09
GBI P12-1
EN 13813: 2002
Multiplan
Cementious screed material for use internally in buildings
EN 13813: CT-C20-F4-A22

Reaction to fire:	E
Release of corrosive substances:	CT
Compressive strength:	C20
Flexural strength:	F4
Wear resistance:	A22

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid. With the publication of this Technical Information Sheet all previous editions are no longer valid.

Remmers (UK) Limited Crawley
United Kingdom
Tel: +44 (0) 1293 594 010
Fax: +44 (0) 1293 594 037
www.remmers.co.uk