

Technical Information Sheet
Article No. 2803

Optiplan 2/30

Hydraulic fast setting and crack-free hardening levelling compound. Easy to apply, self-levelling and can be pumped

High quality, factory-mixed, dry mortar with a special cement combination, prepared mineral fillers, organic and inorganic additives

Range of use

- Optiplan 2/30 is used as an early loadable levelling layer on uneven, rough concrete and cement screed surfaces in all indoor areas. Also for heated screed constructions.
- The hardened, plane coating can be directly covered after just 6 hours with tiles and floor slabs in a thin-bed procedure, e.g. with Remmers Flex Cement. Carpeting, parquet, PVC or linoleum can be laid after the levelling layer has thoroughly dried.
- Optiplan 2/30 has a very hard surface and can also be directly used without a cover. Examples: for levelling floors in housing and administration buildings (chair wheel proof), for vehicles with soft tyres and fork lifts (air, rubber or steel reinforced tyres in warehouses and industrial halls).
- Optiplan 2/30 can also be worked over with Remmers floor coating systems. Epoxy BS 2000 is always used as a primer and then coated a suitable system, depending on load.
- Non-absorbent substrates, e.g. bituminous mastic concrete, old ceramic tiles and natural stone floors as well as wood floors

should be levelled with Remmers Uniplan 0/50. If increased abrasion is expected, use Remmers Multiplan 5/15.

Property profile

Remmers Optiplan 2/30 is a high quality, mineral, floor levelling compound that is ready to use after mixing with water and quickly sets hydraulically. Optiplan 2/30 can be worked by hand or machine. The flowing capable mortar levels itself and sets with a smooth surface.

Special features of the product:

- Easy to mix and distribute (can be pumped)

- Fast working through high flowing capacity and self-smoothing surface
- Layer thickness from seamless to 10 mm, also for surfaces with indentations up to 30 mm
- Low inherent stress, hardens crack-free
- Sets quickly and can be subjected to foot traffic after 3-4 hours
- High adhesive, compressive and tensile strength
- Can be subjected to fork lift traffic
- Can be coated with paints and synthetic resins
- Ideal for levelling floors before applying floor coatings



Characteristic data of the product

Colour:	grey
Bulk density:	1.2 kg/l powder
Water requirements:	5.0 l per 25 kg powder
Consistency:	highly flowing capable
Working time:	approx. 30 minutes
Working temperature:	+5 °C to +25 °C
Density of the ready-to-use mortar:	approx. 1.9 kg/dm ³
Compressive strength in accordance with DIN 1164 (28 days):	40 N/mm ²
Foot traffic:	after 3-4 h (depending on temp.)
Vehicle traffic:	after 48 h (soft tyres)
Moisture-insensitive covers:	after approx. 6 h
Paint or sealant:	2-3 days (at a measured residual moisture content < 4% by weight)

Substrate

The substrate should be sound, clean, dry and free of substances that could interfere with the adhesion of Remmers Optiplan 2/50 (e.g. layers of sinter, release agents, loose material, dust, oil, grease, etc.). Clean the substrate and remove all non-load-bearing layers (e.g. steel ball jetting, grinding). The resulting profile of the prepared substrate must provide a suitable mechanical key for the subsequent application of the primer and screed overlay. Always remove layers of dust with a vacuum cleaner.

Prime the substrate with Epoxy ST100 or Epoxy FAS100 then broadcast fully with Quartz 03/06 and allow to harden. Ensure that the surface is a 'sand carpet'.

Directions

Pour **5.0 l of water** into a clean container and add **25 kg = 1 bag of Optiplan 2/30**. For layers up to 5 mm thick, the addition of water may be increased up to 5.3 l per 25 kg bag. These mixing ratios should be observed since the quality of execution and working depend on this. Mix Optiplan 2/30 thoroughly with mixing equipment/tool, e.g. mixers made by BEBA or a drill with spiral mixing basket, for at least 3 minutes until a homogenous mortar with good flowing properties have been

achieved. Directly after mixing, pour Optiplan 2/30 onto the prepared substrate and distribute with a screed rake or toothed rubber blade to the desired layer thickness. Individual batches should be continuously worked to avoid seams. Optiplan 2/30 should only be applied in a single layer. This mortar, which has good flowing properties, levels itself while it is being distributed. Additional rolling of the surface with a spiked roller immediately after applying reduces the time needed for working and creates a smoother surface since this improves de-airing of the material. For layers up to approx. 7 mm thick, use a spiked roller with spikes at least 10 mm long and spiked rollers with respectively longer spikes of 20 mm to 50 mm long for thicker layers. For larger surfaces, the use of suitable mixing pumps or positive mixers with a pump, e.g. mixing pump m-tec duomix 2000 (Berö Tinu), PFT mixing pump MS 2, PFT ZP3 (NV2) + PFT Multimix, Putzknecht S 36 or S 30 + TM 100 or Putzmeister S 5 EV-TM or RMP 1000 is recommended.

If standing time is longer than 20 minutes, drain the pump hose and rinse with water. Continuous mixers should not be used since mixing time is only a few seconds and could require considerably higher quantities of water which reduces the quality of the mortar. Working

time depends on temperature and is approx. 30 minutes at 20 °C.

Notes

Initially set mortar cannot be made workable again by adding water or fresh mortar. Do not use at substrate temperatures below 5 °C or above 25 °C. Lower temperatures increase, higher temperatures reduce working time.

Optiplan 2/30 should be protected from drying out too quickly in wind and sun.

Moisture-sensitive covers and sealants may only be applied after the coating has dried to a residual moisture content < 4% by weight (depending on temperature 2-4 days).

When coating or sealing with reactive resins, grind the surface and vacuum first.

Tools, cleaning

Drill with a spiral mixing tool, BEBA mixing equipment or positive mixer, pump machines with a positive mixer, transport/pouring tubs, screed rake or toothed rubber blade for distributing in an even layer, spiked roller to de-air the material quickly. Clean tools and equipment with water while the mortar is still fresh.

Packaging, application rate, shelf-life

Packaging:

25 kg paper bags

Application rate:

Approx. 1.6 kg powder/m² and mm thick layer

Shelf-life:

Approx. 12 months stored dry in closed bags on pallets protected from moisture.

Safety, ecology, disposal

Remmers Optiplan 2/30 contains cement and reacts alkaline with moisture. Protect skin and eyes. In case of irritation, rinse off thoroughly with plenty of water. In case of eye contact, seek medical advice. Optiplan 2/30 is low in chromates within the meaning of TRGS 613. Further information on safety when transporting, storing and handling as well as disposal and ecology is found in the latest Safety Data Sheet.

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.

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