

Technical Information Sheet
Article No. 26027625

Optiplan Base

Hydraulic fast setting levelling compound. Easy to apply, self-levelling and can be pumped
High quality, factory-mixed, dry mortar for levelling.

Range of use

- Optiplan Base is used as a fast setting levelling layer on uneven concrete and cement screed surfaces in indoor areas. It can be used over underfloor heating systems.
- The hardened screed can be directly covered with decorative surface flooring after 24 hours (for depths 3-15mm).

Property profile

Remmers Optiplan Base is a high quality, mineral, floor levelling compound that is ready to use after mixing with water and quickly sets hydraulically. Optiplan Base can be worked by hand or machine. The flowing mortar levels easily 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 3mm to 50 mm.
- Low inherent stress
- Sets quickly and can be subjected to foot traffic after 3-4 hours at 20°C.
- High adhesive, compressive and tensile strength

- Optiplan Base is not designed to be left as a traffickable wearing surface in areas subjected to high abrasion.

Substrate

The substrate should be sound, clean, dry and free of substances that could interfere with the adhesion of Remmers Base (e.g. layers of laitance, 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. Do not apply on hot substrates.

Priming

Prime the substrate with Epoxy ST100 or Epoxy FAS100 then broadcast fully with Quartz 07/12 and allow to harden. Ensure that the surface is a 'sand carpet' and that there are no 'bald' patches of resin without aggregate encapsulation.

When applying more than one layer layer of Optiplan Base ensure that the previously laid screed layer has sufficiently cured (next day). Ensure that an intercoat adhesion primer is applied between such layers using Deep Primer W or Aida Haftfest Special (diluted at 1:3 with water). Avoid ponding and allow to become touch dry before laying the screed.

Directions

Pour **4.25 l of water** into a clean container and add **25 kg = 1 bag of Optiplan Base**. These mixing ratios should be observed since the quality of execution and working depend on this. Mix Optiplan Base thoroughly with mixing equipment/tool, e.g. a drill with spiral mixing paddle for at least 3 minutes until a homogenous mortar with good flowing properties has been achieved.

Directly after mixing, pour Optiplan Base onto the primed substrate and distribute with a screed rake or toothed rubber blade to the desired layer thickness. Individual batches should be worked to a wet edge to avoid seams.

This mortar, which has good flowing properties, levels itself while it is being distributed.

Characteristic data of the product

Colour:	Light Grey	
Consumption:	1.69 kg/mm/m ²	
Water requirements:	4.25 ltrs per 25 kg powder	
Consistency:	Highly flowing	
Flow:	250 mm – 280 mm with Remmers Flow Table / Kit	
Working time:	Approx. 20 minutes	
Working temperature:	+5 °C to +25 °C	
Compressive strength (BS EN13892-2)	35 N/mm ² 28 days 32 N/mm ² 7 days 27 N/mm ² 1 day	
Time to foot traffic: (temperature dependent)	After 3-4 hours	
Time to cover: (temperature dependent)	3-15mm	1 Day
	Up to 30mm	2 Days
	Up to 50mm	3 days

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. M-tec Duomix 2000, is recommended. When pumping it is vital that the applicator carry's out flow tests at the start of application on a regular basis using the Remmers Flow Table Kit – consult Remmers Technical Department for further advice.

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. 20-30 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 Base should be protected from drying out too quickly in wind and sun.

Optiplan Base is not suitable for external use.

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. 1.69 kg powder/m²/mm thick layer

Shelf-life:

Approx. 6 months stored dry in closed bags on pallets protected from moisture.

Safety, ecology, disposal

Remmers Optiplan Base contains cement and reacts to 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 Base 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.

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.



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