Optiplan Base

Industrial floor-levelling screed for interior areas

Availability	
Quantity per pallet	0
Packaging unit	**25 kg**
Type of container	Paper bag
Container code	25
Art. no.	
260276	■

Application rate

Approx. 1.7 kg/m²/mm layer thickness

Apply to a large enough trial area to determine the precise amount required.

Range of use

- Levelling layer under resin coatings
- Levelling layer under floor coverings
- Levelling layer under ceramic surfacing
- Levelling of uneven concrete/screed surfaces in Industrial and commercial environments
- Layer thickness 5-50mm

Property profile

- Hydraulically hardening
- Low-stress
- Fast application and Drying
- Good flow properties
- High strength and hardness
- Pumpable

Characteristic data of the product

BS EN 13813:2002 Class	CT-C35-F6
Flow spread	250-280 mm using Remmers flow test table/kit
Loading	Foot traffic after. approx 3-4 hours
Ready to be covered	Can be covered with tiles/boards: after approx. 4 h Can be covered with impervious flooring: after approx. 24 h at 5 - 15 mm layer thickness For layer thickness in excess of 15 mm, additional drying is required.
Flexural strength	After 24 hours : approx. 3.5 N/mm² After 7 days: approx 4 N/mm² After 28 days : approx 6 N/mm²
Compressive strength	After 24 hours : approx. 27 N/mm² After 7 days: approx 32 N/mm² After 28 days : > 35 N/mm² As per EN 13892-2
Drying time	All drying times are subject to ambient temperature and ventilation conditions.
Adhesive pull strength	> 1.5 N/mm²

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

Possible system products

- **Epoxy ST 100 (1160)**
- **Epoxy MT 100 (0936)**
- **Epoxy BS 2000 Clear (6011)**
- **Epoxy BS 2000 (6001)**

Preparation

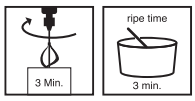
Substrate requirements

The substrate must be firm, free of cracks and capable of supporting a load. Remove unstable surface coatings and/or separating layers (dirt, dust, oil, paint residues etc.).

Substrate preparation

Expansion joints, movement joints and edge joints must be retained. Apply strips of insulation material to rising components to prevent the compound from flowing into the connection joints.
The substrate must be prepared mechanically to accept resin primers. A selection of methods can be used including: Captive Steel Shot Blasting, Diamond Grinding, Surface Planing or scabbling.
Prime the surfaces with selected epoxy Primer from the Remmers range. See the relevant Technical Data Sheet for more information. Whilst wet, primer should be fully blinded with coarse aggregate and allowed to cure.

Production of the mixture



Mixing

Pour water into a clean container and add dry mortar.
Mix thoroughly for approximately 3 minutes until the proper consistency for working has been achieved.
Leave to mature for approx. 3 minutes
Then use a slowly rotating electric stirrer to briefly mix the compound (approx. 300 - 400 rpm.)
* Natural fillers lead to slight deviations in the amount of water required. The optimum water quantity depends on the building site conditions and the layer thickness.

Mixing ratio	Water quantity needed: 4.25 l water for 25 kg product

Always conduct Flow testing throughout application.
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.
When applying via mixer pump, it is important to ensure sufficient hose lengths are utilised to provide secondary mixing and plasticizer release. Additional water should not be added to aid flow properties.

Directions

Conditions for use
Temperature of the material, air and substrate: from min. +5 °C to max. +25 °C
Low temperatures increase, while high temperatures decrease the working and setting time.

Working time (+20 °C)
Approx. 20 minutes

After mixing, pour the material continuously onto the surface to avoid seams and distribute.
Going over the surface with a spiked roller improves the surface quality and must be done.

Tips on use

Do not mix hardened or set mortar with water or fresh material.
Protect fresh mortar surfaces from frost and ensure that they do not dry out too quickly.
When applying Multiple layers, use Epoxy BS2000 Transparent as an intermediate primer and ensure the subsequent layer is placed whilst the primer is still wet/tacky.
Ensure Sufficient primer is used to form a film at the surface.
In the event of any loose material at the surface, ensure this is removed prior to priming/topping.

Notes

The mixing water must be of drinking water quality.
Always set up a trial area/trial areas first.
Low chromate content in accordance with Directive 2003/53/EC.
The characteristic data of the product were determined under laboratory conditions at 20 °C and 50% relative humidity.
The information in TKB publication No. 9 (April 2008) must be observed.
Not suitable for use as a wearing screed.

Tools / Cleaning

Mixer, bucket for transporting/pouring, floor scraper, spiked roller, spiked shoes

Clean tools with water while the material is still fresh.
Any material that has already begun to dry can only be removed mechanically.

Storage / Shelf life

If stored unopened in its original container in a cool, dry place and protected against frost, the product will keep for 6 months.

Safety data / Regulations

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

Disposal	Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.
CE marking	CE 0432 Remmers GmbH Bernhard-Remmers-Str. 13, D - 49624 Löningen 19th GBI P16 EN 13813: 2002 6358 Cementitious screed material for use internally in buildings EN 13813: CT - C35 - F6

Reaction to fire:	Class E
Release of corrosive substances:	CT
Compressive strength:	C35
Flexural strength:	F6
Wear resistance:	NPD