HADAPLAN® Bodenausgleich

Self-smoothing, abrasion-resistant floor leveling compound for layer thicknesses from 4 mm to 50 mm for outdoors and indoors

Characteristics

HADAPLAN® Bodenausgleich is a cement-containing leveling compound for layer thicknesses from 4 to 50 mm. From 4 to 15 mm used on its own, from 15 to 25 mm mixed with silica sand 0/4 mm, and from 25 to 50 mm mixed with silica sand 0/8 mm.

- Self-leveling
- High load-bearing strength
- Quick-hardening
- Can be applied by machine
- Waterproof and weatherproof

Use

HADAPLAN® Bodenausgleich is used for leveling concrete slabs and rough concrete floors, and for producing floors.
As a wearing surface in storerooms, factories, garages, cellars and workshops.
For smoothing and leveling cement screeds and rough B 25 concrete floors.
For sloping screeds before laying tiles or other coverings.
For repairing break-offs, holes and unevenness.
For leveling height differences (ramps, etc.).

Area of application:

- Industrial and domestic buildings

Specifications

<table>
<thead>
<tr>
<th>Presentation</th>
<th>paper sack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Container size</td>
<td>25 kg</td>
</tr>
<tr>
<td>Delivery quantity</td>
<td>42 sacks per pallet</td>
</tr>
<tr>
<td>Powder weight</td>
<td>1.44 kg/l</td>
</tr>
<tr>
<td>Working temperature</td>
<td>+5 °C to +30 °C</td>
</tr>
<tr>
<td>Workable time¹)</td>
<td>approx. 25 minutes</td>
</tr>
<tr>
<td>Drying times¹)</td>
<td></td>
</tr>
<tr>
<td>- Foot traffic</td>
<td>after about 3 hours</td>
</tr>
<tr>
<td>- Ready for floor covering</td>
<td>after about 72 hours</td>
</tr>
<tr>
<td>Compressive strength, DIN 1164</td>
<td></td>
</tr>
<tr>
<td>after 2 days</td>
<td>≥ 18 N/mm²</td>
</tr>
<tr>
<td>after 7 days</td>
<td>≥ 30 N/mm²</td>
</tr>
<tr>
<td>after 28 days</td>
<td>≥ 40 N/mm²</td>
</tr>
<tr>
<td>Compressive strength with 30% silica sand</td>
<td></td>
</tr>
<tr>
<td>after 1 day</td>
<td>≥ 10 N/mm²</td>
</tr>
<tr>
<td>after 7 days</td>
<td>≥ 28 N/mm²</td>
</tr>
<tr>
<td>after 28 days</td>
<td>≥ 37 N/mm²</td>
</tr>
<tr>
<td>Bending tensile strength, DIN 1164</td>
<td></td>
</tr>
<tr>
<td>after 2 days</td>
<td>≥ 3.8 N/mm²</td>
</tr>
<tr>
<td>after 7 days</td>
<td>≥ 4.5 N/mm²</td>
</tr>
<tr>
<td>after 28 days</td>
<td>≥ 8.0 N/mm²</td>
</tr>
<tr>
<td>Bending tensile strength with 30 % silica sand</td>
<td></td>
</tr>
<tr>
<td>after 1 day</td>
<td>≥ 3.5 N/mm²</td>
</tr>
<tr>
<td>after 7 days</td>
<td>≥ 4.8 N/mm²</td>
</tr>
<tr>
<td>after 28 days</td>
<td>≥ 9.0 N/mm²</td>
</tr>
<tr>
<td>Storage</td>
<td>dry, 12 months</td>
</tr>
</tbody>
</table>

¹) At +20 °C and 60 % relative humidity.

Amount required

Per 1 mm thick layer approx. 1.95 kg/m²
Preparation of the surface

The surface must be firm, sound, clean, dry and free of dust and substances that cause separation, such as wax, oil or grease. Remove sintered layers, bitumen and worn surfaces (tire wear) mechanically by means of milling, shot peening, sandblasting, etc. If required, stabilize the substrate by applying HADALAN® DDV. Fill large depressions and holes with a mixture of 2 parts by weight HADAPLAN® Bodenausgleich : 1 part by weight screed sand 0/8 mm.

Prime cement screeds and concrete floors with VESTEROL® Grund.

Substrates having different absorbencies, existing tile coverings, and old adhering coatings must be primed with HADAPLAN® T 2 Bauharz. Sprinkle 0.5-1.0 mm silica sand on the new primed surface. Only after the coating has dried completely (usually after 24 hours), the coating compound is allowed to be applied. Adhesive tensile strengths must be checked; at least 1.5 N/mm² are required. Always grind calcium sulfate coatings (using grain size 16).

Thoroughly remove any dust and loose dirt and debris from the substrate before coating (use an industrial vacuum cleaner). Primed surfaces must be allowed to dry fully before they are coated.

Application

1. Mix HADAPLAN® Bodenausgleich into clean water in a suitable container and use a slow-running drilling machine with attached agitator (revolving at 400-800 rpm) to stir the mixture well, until you have a clump-free and lump-free mortar.

Recommended mixing ratio for layer thicknesses from 4 to 10 mm:
25 kg HADAPLAN® Bodenausgleich : 4.25 l water

Recommended mixing ratio for layer thicknesses from 10 to 25 mm:
2 parts by weight HADAPLAN® Bodenausgleich : 1 part by weight screed sand 0/4 mm

Recommended mixing ratio for layer thicknesses from 25 to 50 mm:
2 parts by weight HADAPLAN® Bodenausgleich : 1 part by weight screed sand 0/8 mm

Mixing water approx. 4.5 l for 25 kg HADAPLAN® Bodenausgleich.

Allow for moisture content of the screed sand. Recommended mixing ratio for leveling sloping screeds:
25 kg HADAPLAN® Bodenausgleich : 3.5 l water

Mix to a stiff consistency.

2. Pour out the mixed mortar and spread with a broom, rubber float or a smoothing trowel. If applicable, apply batches of leveling compound “wet in wet”.

3. Subsequently (not later than 15 minutes) work over with a spiked roller for aeration purposes.

4. If two layers of HADAPLAN® Bodenausgleich are to be applied, the material can be overcoated without pretreatment on the same day. Otherwise, Floor Leveler must be primed with VESTEROL® Grund.

5. Clean tools with water immediately after use.

Please note

Ceramic finishes and floor coverings can be laid after 72 hours in favorable drying conditions.

Hahne's system products

VESTEROL® Grund
HADALAN® DDV
HADAPLAN® T 2 Bauharz
Silica sand 0.5-1 mm
## Important notes

- Keep to a working temperature of +5 °C to +30 °C.
- Low temperatures will slow down and high temperatures will accelerate setting.
- Protect the surfaces that have just been coated from direct sunlight.
- For floors subject to harsh conditions and industrial floors (fork lift trucks), apply a layer thickness of at least 6 mm.
- By mixing differently, the mechanical properties of HADAPLAN® Bodenausgleich can be modified.
- In addition to the information contained in this data sheet, the rules and regulations of various organizations and trade associations as well as the relevant DIN standards for the work being carried out must be observed.
- Not suited for floating floor application.

## Ingredients

Standard cements, mineral aggregates, admixtures, synthetic dispersion powder, additives.

## Safety provisions/recommendations

Contains cement and will cause alkaline reactions when it comes into contact with moisture or water.
- R 38: Irritating to skin.
- R 41: Risk of serious damage to eyes.
- S 22: Do not breathe dust.
- S 24/25: Avoid contact with eyes and skin.
- S 26: In case of contact with eyes, rinse eyes immediately with plenty of water and seek medical advice.
- S 37: Wear suitable protective gloves.
- S 46: If swallowed, seek medical advice immediately and show this container or label.

## Disposal

General: Only containers which are completely emptied can be returned to the German recycling partner INTER-SEROH (applicable only in Germany, in other countries different regulations may apply). Dispose of dried residual product according to European Waste Catalogue (EWC) code number 17 01 01 (concrete).

This information is based on extensive tests and practical experience. However, it cannot be applied to every type of application. If in doubt, we recommend that you test the product before using it. Due to continuous product improvement, this information is subject to change without notice. Our General Terms and Conditions apply. Version as of 09.2007