

Industrial flooring for functional, highly loadable surfaces



Characteristics

HADALAN® IB20 54Z is a mineral floor levelling compound based on the innovative SAFE-Tec® technology. It can be applied in layer thicknesses of 5 to 20 mm and is suitable as a finished wear layer.

- Mineral
- High abrasion resistance
- Processing by machine and from hand
- High flowability
- Low stress
- Can be walked on after approx. 6 hours
- Highly temperature resistant
- Directly usable
- For areas with gradients
- Resistant against frost and de-icing salts

Use

HADALAN® IB20 54Z is used to produce highly resistant wear layers on screeds and concrete substrates.

Fields of application

- Inside and outside
- On heated and unheated cement screeds and concrete
- Storage rooms
- Garages and underground car parks
- Production halls
- Industrial sites
- Driveable surfaces

Specifications

Packaging	paper bag
container	25 kg
delivery form	48 bags/pal.
Processing temperature	+ 10°C to + 30°C
Processing time	approx. 40 minutes
Water requirement	4.2 to 4.5 l per 25 kg
Walkable	after approx. 6 hours
Load bearing	
light load bearing	after 24 hours
full load bearing	after 3 days
can be re-coated	after approx 24 hours
Compressive strength	
after approx. 24 hours	> 20 N/mm ² ,
after 28 days	> 40 N/mm ²
Flexural tensile strength n. 28 d	> 10 N/mm ²
Storage	dry, 12 months

Quantity required

Per mm layer thickness	approx. 1.6 kg
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Preparation of the surface

the surface must be solid, load-bearing, clean, dry and free of dust, shrinkage, cavities, cracks and separating substances such as wax, oil or grease. Sintered layers, bitumen and worn surfaces (tyre abrasion) as well as all other non-load-bearing substrates must be prepared by milling, shot blasting, sand blasting or similar (minimum adhesive tensile strength 1.5 N/mm², minimum compressive strength 25 N/mm²). The substrate must have a residual moisture ≤ 4.0 CM-% at the time of application. Existing cracks in the subsoil must be repaired professionally. Deep excavations and defects in the substrate must be levelled in advance, e.g. with **VESTEROL® MS 55HSP**. For areas subject to high mechanical loads, this should be done with a synthetic resin mortar.

The substrate must be primed with a reactive resin primer (e.g. **HADALAN® SBH 13E** or **HADALAN® EBG 13E**) to regulate the absorption behaviour.

The fresh primer should be sprinkled with **Quartz051 57M** over the entire surface. Expansion, movement or building separation joints already existing in the subsoil must be taken over at the same arrangement through the entire cross-section of the system. An edge insulation strip must be attached to all rising structural elements, such as wall connections, in such a way that underruns are impossible.

Application

1. Pour the required amount of water into a clean container with a volume of at least 30 l and add the material evenly.
2. Mix the material with a suitable stirrer and the DLX stirrer (Art. No. 1043500) until homogeneous and lump-free. Allow to mature for approx. 3 minutes and stir again.
3. The required amount of water must be maintained precisely and evenly. Deviations or fluctuations can lead to optical impairments or reduction of the product properties. Clean tap water must be used.
4. Apply levelling compound evenly to the prepared substrate and pull off to the desired layer thickness using a squeegee (**iTools Squeegee** Art No. 1043507 + **iTools Pin Squeegee** Art No. 1043506).
5. The layer thickness must be adapted to the expected load. In case of forklift traffic, a minimum layer thickness of at least 8 mm should be planned.
6. Clean tools and equipment with water immediately after use.
7. The use of the continuous mixing pump (e.g. m-tec duo mix 2000) is recommended for larger areas. The delivery rate must be at least 40 L/min fresh mortar. For further details regarding machine processing, please contact Hahne Application Technology.
8. If two layers are used, the first layer must be primed repeatedly as described above after curing.

hahne system products

HADALAN® SBH 13E
HADALAN® EPUni 12E
HADALAN® EBG 13E
HADALAN® MBH 12E
HADALAN® LF41 12E
HADALAN® TopCoat M 12P
Quartz051 57M

Important notes

- Do not mix with other products and/or foreign substances.
- If a uniform colour scheme is important, only use dry mortar from the same batch / date of production.
- Protect from rapid dehydration through sunlight, wind or draughts.
- Due to the mineral aggregates and the handcrafted design, an irregular optical appearance in the surface cannot be excluded.
- Craquelure cracks in the surface do not constitute a defect.
- A different absorption behaviour in the substrate can lead to pores and blowholes (pinholes) in the levelling compound.

Ingredients

cement in accordance with DIN EN 197-1, quartzite aggregates in accordance with DIN EN 13139

Safety provisions/recommendations

product exhibits strong alkaline reaction when it comes into contact with moisture/water. Therefore, protect eyes and skin. In case of contact, always rinse with water. In case of eye contact, consult a doctor immediately. Further information in the safety data sheet.

Disposal

The local waste removal regulations must be observed.

Manufacturer

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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 12.2020