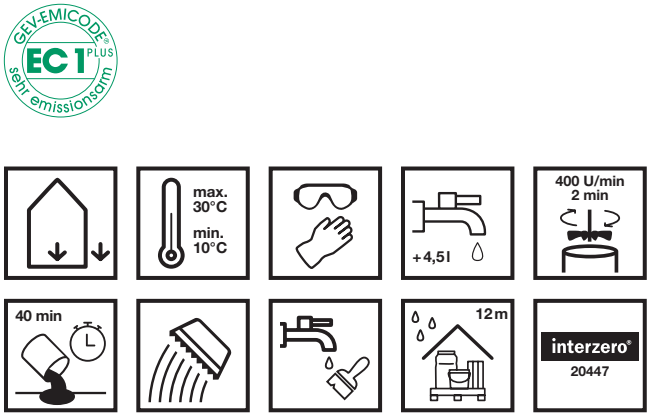
HADALAN® IB20 54Z

Industrial flooring for functional, heavy-duty surfaces



These pictograms apply to the **basic product**.
Deviations are possible depending on the area of application and processing.

PRODUCT INFORMATION

Description

HADALAN® IB20 54Z is a mineral floor leveling compound based on the innovative SAFETEC® technology. It can be applied in layer thicknesses of 5 to 20 mm as standard and is suitable as a finished wear layer. With correspondingly fast installation, layer thicknesses of up to 50 mm are possible.

Application

- for creating highly resistant wear layers on screeds and concrete substrates

Operational area

- on industrial areas, drivable areas
- in storage rooms, garages and underground garages, production halls
- on heated and unheated cement screeds and concrete
- Storage rooms
- Garages
- Underground garages
- Production halls
- Industrial and commercial space
- trafficable surfaces

Place of use

- for interior and exterior use
- in floor areas

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Properties

- mineral floor leveling compound based on innovative SAFE-Tec® technology
- layer thickness of 5 to 20 mm
- suitable as a finished wear layer
- mineral
- high abrasion resistance
- can be applied by machine and by hand
- highly free-flowing
- extremely low tension
- can be walked on after approx. 6 hours
- high temperature resistance
- directly usable
- for areas with slopes
- frost and de-icing salt resistant

Technical Data

Available container sizes	25 kg/sack
Compressive strength (after 24 hours)	≥ 20 N/mm²
Compressive strength after 28 days	≥ 40 N/mm²
Flexural strength (after 28 days)	≥ 10 N/mm²
Fire behaviour	$A2_{fl}$ s1
Processing temperature	+10°C to +30°C
Water demand	4.2 to 4.5 l (can be reduced to 3.8 l on slopes)
Processing time	approx. 40 minutes
Walkability	after approx. 6 hours
Resilience	Lightly loadable after 24 hours, fully loadable after 3 days
Revisability	after approx. 24 hours
Storage	dry, 12 months
Consumption	approx. 1.6 kg/m² per mm layer thickness

[1] At +20 °C and 60 % relative humidity

SUBSTRATE

Properties/tests

- The substrate must be solid, load-bearing, clean, dry and free from dust, shrinkage, cavities, cracks and separating substances such as wax, oil or grease.

Preparation

- Sintered layers, bitumen and worn surfaces (tyre wear) as well as all other non-load-bearing substrates must be prepared by milling, shot-blasting, sandblasting 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 covering.
- Cracks in the substrate must be repaired professionally.
- Deep chipping and defects in the substrate must be levelled in advance, e.g. with VESTEROL® MS 55HSP. In areas subject to high mechanical loads, this should be done with a synthetic resin mortar.
  The substrate must be primed with a reaction resin primer (e.g. HADALAN® SBH 13E or HADALAN® EBG 13E) to close the pores and regulate the suction behaviour.
  The fresh primer must be sprinkled with Quartz051 57M over the entire surface in excess.
- Expansion, movement, building separation or connection joints already present in the subsurface must be applied in the same arrangement throughout the entire cross-section of the system.
- The strasser PLUS RDS edge insulation strip must be attached to all rising components, such as wall connections, in such a way that it cannot run underneath.

AREAS OF APPLICATION AND PROCESSING

Applying

- Pour the required amount of water into a clean container with a volume of at least 30 l and add the material evenly.
- Mix material homogeneously and lump-free with a suitable stirrer and the DLX stirrer (Art. No. 1043500), allow to mature for approx. 3 minutes and stir again.
- The required amount of water must be adhered to precisely and evenly. Deviations or fluctuations can lead to visual impairments or a reduction in the product properties. Use clean tap water of drinking quality.
- Do not mix with other products and/or other substances.
- Apply levelling compound evenly to the prepared substrate and squeegee (iTools Squeegee Art. No.1043507 + iTools Pen Squeegee Art. No. 1043506) to the desired layer thickness.
- The layer thickness must be adapted to the expected load. A minimum layer thickness of 8 mm must be planned for forklift traffic.
- For larger areas, the use of the continuous mixing pump (e.g. m-tec duo mix 2000) is recommended. The delivery rate must be min. 40 l/min fresh mortar. For further details regarding machine application, please contact Hahne Application Technology.
- When working in two coats, prime the first coat repeatedly as described above after curing.

NOTES

Cleaning

- Clean all tools and equipment with water immediately after use.

System products

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

To be observed

- Do not mix with other products and/or foreign substances.
- If a uniform colour design is important, only use dry mortar of the same batch / date of manufacture.
- Protect from rapid dehydration caused by sun, wind or draughts.
- Due to the mineral aggregates and the craftsmanship, an irregular visual appearance in the surface cannot be ruled out.
- Crackles in the created surface do not constitute a defect.
- Different absorption behaviour in the substrate can lead to pores and pinholes in the levelling compound.

Ingredients

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

Occupational safety / Recommendation

- Further information on safety during transportation, storage and handling can be found in the current safety data sheets.

Disposal

- The following applies to all systems: Only return empty containers to recycling partner Interseroh. Cured material residues can be disposed of according to EAK code no. 17 01 01 (concrete).

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The statements are made based on extensive tests and practical experiences. They cannot be applied to every application case. Therefore, we recommend carrying out application trials if necessary. Subject to technical changes in the course of further development. Furthermore, our General Terms and Conditions of Business apply.