

PRODUCT DATA SHEET

Casco Floor Expert HL 50

HYBRID LEVELLING COMPOUND FOR THICK LAYERS WITH REDUCED CO₂ FOOTPRINT, 3-50 MM.



DESCRIPTION

Fast drying self levelling compound with reduced CO₂ footprint of 15%, very little shrinkage, for use from 3-50 mm.

The surface is ready for covering already after 24 hours (resilient coverings), and after 48 hours for wooden floor. The product is based on the innovative Hybrid Active Dry Technology, combining the best features from cement and gypsum.

USES

- For indoor use only.
- Commercial and industrial areas
- New and old buildings
- Renovation work
- Ideal in combination with thin layer floor heating systems
- Suitable for applications on subfloor heating system.

FEATURES

- Fast strength development
- Heavy mechanical load capacity
- High strength values
- Pumpable

CERTIFICATES AND TEST REPORTS

- EN 13813: CA-C35-F10
- ECI Plus & M1 for low emission

PRODUCT INFORMATION

Composition	Hybrid binder
Packaging	25 kg bag
Shelf life	12 months from production date (s. packaging) in unopened packaging. Opened packaging should be closed immediately and used up as soon as possible.
Storage conditions	Store in cool, dry conditions.
Bulk density	1,38 kg/liter of dry powder.

APPLICATION INFORMATION

Consumption	approx. 1,8 kg/m ² /mm
Layer thickness	3 - 50 mm

Mixing ratio	25 kg of powder with 4,25 liters of cold water
Substrate temperature	Not below +5°C, best conditions between +15°C - +20°C, both substrate and leveling compound
Pot Life	approx. 30 minutes
Waiting time	<ul style="list-style-type: none"> ▪ Walkable after approx. 2-3 hours ▪ Coverable after <ul style="list-style-type: none"> ▪ approx. 24 hours ≤ 50 mm (resilient coverings at 20°C/75%RH) ▪ approx. 48 hours ≤ 50 mm (wood coverings at 20°C/75%RH)

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Casco Floor Expert HL 50 is suitable on substrates like:

- Concrete
- Cement and rapid cement screeds
- Calcium sulphate-based screeds
- Mastic asphalt screeds (sanded) IC 10 and IC 15 according to EN 13 813, layer thickness 3-50 mm.
- Old substrates with old water-resistant adhesive residues
- Old substrates such as ceramic tiles, natural stones, and terrazzo.
- Magnesia screeds with mineral aggregates.
- Wooden substrates.

SUBSTRATE PREPARATION

- Adequate strength, bearing strength, dimensional stability and permanent dry.
- Free of layers which reduce adhesion, e.g. dust, dirt, oil, fat, wax cleaning agents and loose particles.
- Separation layers, sinter layers, and other similar contamination should be removed through sanding, brushing, abrasive blast cleaning, milling or thorough cleaning.
- Old, loose, and weak levelling layers should be removed mechanically.
- When installing floor coverings, the RH of the construction must not exceed 85%.
- If grinding of Casco Floor Expert HL 50 is necessary use paper or net with grit-size ≥ 80, grinding must be done thoroughly before full gluing of wooden floors.
- Layers of water-soluble adhesives, e.g. sulphatic adhesives, should be removed completely.
- Old floors, such as ceramic tiles, are to be thoroughly cleaned and sanded.

- OSB to be grinded intensively.
- Rooms that do not have a cellar underneath must be sealed against rising dampness in compliance with the standard.

The requirements specified in relevant valid standards, guidelines and specifications must be fulfilled.

SURFACE PREPARATION

For priming the substrates, use a suitable Casco primer. For further information see the Product Data Sheet of the chosen primer.

MIXING

25 kg of Casco Floor Expert HL 50 / 4,25 liter of cold water.

APPLICATION

- Use a clean bucket.
- Carry out preparatory work such as filling joints, evening out hollows and unevenness using the sturdy repair mortar EF.
- Water bearing pipes in metal must be sealed to avoid contact with the levelling compound, since for example galvanized steel pipes don't have sufficient corrosion protection.
- Protect curing Casco Floor Expert HL 50 from high ambient temperatures, direct sunlight, and draughts.
- In case of thick layers, protect vertical elements with isolating strip.
- Pour Casco Floor Expert HL 50 into cold, clean water and stir to a homogenous mixture (speed mixer recommended, 600 rpm, 3 min).
- Then pour out the levelling compound and spread using a toothed trowel. It is possible to achieve an even surface without difficulties. It is usually not necessary to remove trowelling defects or to level more than once.
- If a second layer of levelling compound is to be applied, the first levelling compound layer should be primed with VD Universal Primer (1:1) or VD Ready Fix, when dry.
- The combined layer thickness must not exceed the given maximum layer of the levelling compound. The second layer may not exceed the layer thickness of the first.
- When a complimentary levelling is needed, use AST directly on the Casco Floor Expert HL 50 (no priming is needed), or EF together with primer VD Universal

PRODUCT DATA SHEET

Casco Floor Expert HL 50
January 2024, Version 03.01
020815030120000008

Primer (1:1).

APPLICATION METHOD / TOOLS

Steel spatula and trowel.

CLEANING OF EQUIPMENT

Clean tools with water.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of CASCOFE products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or on the website www.CASCOFE.eu.

Sika Sverige AB

Domnarvsgatan 15
Box 8061
SE- 163 08 Spånga Sweden
TEL: +46 8 621 89 00
info@se.sika.com
www.casco.eu

PRODUCT DATA SHEET

Casco Floor Expert HL 50
January 2024, Version 03.01
020815030120000008