

PRODUCT DATA SHEET

Casco[®] ThermoPlan

SPECIAL THICK LAYERS LEVELLING COMPOUND.



DESCRIPTION

Dust reduced, self levelling compound for full-surface levelling, for making slopes in wet rooms and floor heating systems in 3-40 mm thick layers. Suitable also under ceramic tiles on balconies and terraces (with roof and walls) and more.

USES

- For interior floors only.
- In residential and commercial areas, schools, offices and hospitals.
- Suitable for application on subfloor heating systems.
- Suitable for slope formation.

CHARACTERISTICS / ADVANTAGES

- Thick layers up to max 40mm
- Dust reduced
- High compressive strength
- Pumpable

APPROVALS / CERTIFICATES

- EN 13813: CT-C20-F5
- EC1 Plus: very low emission
- M1 emission classification

PRODUCT INFORMATION

Composition	Cement based
Packaging	20 kg
Shelf life	12 months from production date (s. packaging) in an unopened bag. Opened bags should be closed immediately and used up as soon as possible.
Storage conditions	Store in cool, dry conditions.
Appearance and colour	Grey powder
Density	1,23 kg/L of dry powder

APPLICATION INFORMATION

Mixing ratio	20 kg of powder with 3,2-3,6L of cold water
Consumption	Approx. 1,8 kg/m ² / mm.
Layer thickness	3-40 mm
Substrate temperature	Both substrate and leveling compound not below +5 °C, best conditions between +15 °C - +20 °C

Waiting time to overcoating

- Walkable after approx. 3h
- Coverable

Temperature/ RH air	1 - 10 mm	20 mm	30 mm	40 mm
+20 °C / 50%	24 h	3 days	4 days	5 days
+15 °C / 80%	24 h	3 days	10 days	14 days
+5 °C / 80%	72 h	14 days	18 days	21 days

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**SURFACE PREPARATION****PRIMING**

For priming the substrates, use suitable Casco primer. Absorbent subfloors should be primed with Casco® Primer/VD Universal Primer and non-absorbent subfloors with Casco® SuperPrimer/ VD Super Grip. For further information see technical data sheet of the primer.

SUBSTRATE QUALITY / PRE-TREATMENT

Casco® ThermoPlan is suitable for levelling and smoothing of:

- concrete
- cement and rapid cement screeds
- calcium sulphate -bounded screeds (gypsum)
- ceramic tiles and natural stone
- chipboards
- old substrates with old water-resistant adhesive
- floor heating systems

REQUIREMENTS OF SUBSTRATE

- 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 %.
- Layers of water-soluble adhesives, e.g. sulphite adhesives, should be removed completely.
- Old water-resistant adhesives should be mechanically removed as thoroughly as possible.
- 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 to be sealed against rising dampness in compliance with the standard.
- The requirements specified in relevant valid standards, guidelines and specifications must be fulfilled.

MIXING

20 kg of Casco® ThermoPlan/ approx 3,2 – 3,6 of clean cold water approx. 3 minutes mixing time.

APPLICATION

Casco® ThermoPlan is suitable:

- For full-surface smoothing and levelling of the subfloors
- In residential, commercial, schools, office and hospitals
- Under textile, ceramic tiles and elastic coverings
- For full-surface levelling under parquet (layer thickness must be at least 3 mm)
- For indoor floors.

The levelling compound must be covered, preferably within 3 days, to prevent cracks.

RECOMMENDED METHOD OF WORKING

- Using a clean bucket.
- Pour Casco® ThermoPlan into cold, clean water and stir to a homogenous mixture (speed mixer is recommended).
- Pour out the levelling compound and spread using a toothed trowel or suitable tool. 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.
- In case of thick layers, protect vertical elements with isolating strip.
- If a second layer of levelling compound is to be applied, the first layer should be primed with Casco® Primer/ VD Universal Primer (1:1) when dry. The combined layer thickness, must not exceed the given maximum thickness of the levelling compound. The second layer may not exceed the layer thickness of the first.
- Carry out preparatory work such as filling joints, evening out hollow sand unevenness relevant sturdy repair mortar.
- 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® ThermoPlan from high ambient temperatures, direct sunlight and draughts.

FORMING OF SLOPES

- Mix the 20 kg bag with 3,2 liters of clean cold water.
- Turn off the floor well with shut-off list or cover the well with, for example, a lid.
- Apply the mixed levelling compound on the outer parts of the floor or where the slope formation shall begin.
- Apply in several steps until the levelling compound has reached the final level.
- If a second layer of levelling compound is to be applied, the first layer should be primed with Casco® Primer/ VD Universal Primer (1:1) when dry. The combined layer thickness must not exceed the given maximum thickness of the levelling compound. The second layer may not exceed the layer thickness of the first.

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 Casco 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.casco.eu.

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