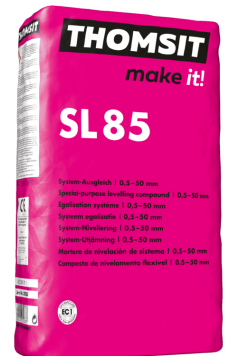


Special-Purpose Levelling Compound

SL 85

Flexible surface leveller for producing layers of 0.5 - 50 mm thickness in one application



FEATURES AND BENEFITS

- Ideal for use on floorboards and difficult substrates
- Resistant to forklift traffic, therefore suitable for industrial floors
- Self-levelling and pumpable
- Low-stress formulation
- Suitable for use under parquet

FIELDS OF APPLICATION

Very low-emission, polymer-modified, cementitious floor leveller for producing substrates that comply with the applicable standards and are ready to receive flooring, including parquet. THOMSIT SL 85 is a heavy-duty quality leveller for residential, commercial and industrial applications. It can be used on suitable substrates such as

- wooden floors, prefabricated substrates, chipboards (P4 to P7) and OSB boards (OSB2 to OSB4)
- mineral screeds and concrete
- prefabricated screeds made of plasterboards/fiberboards
- mastic asphalt screeds
- ceramic tiles, natural stone and terrazzo
- old substrates (made of the above materials) with firmly adhering waterproof residues of adhesives and levelling compounds.

THOMSIT SL 85 is excellently suited for use on heavy-duty industrial and hospital floors. In addition, it can be used without priming coat for the direct levelling of firmly adhering adhesive residues (except residues of sulfite liquor and soft-bitumen parquet/woodblock adhesives).

THOMSIT SL 85 meets the highest demands for occupational safety, indoor air quality and environmental compatibility.

TECHNICAL DATA

Color / consistency	grey powder
Pack size	EVO ³ bag, 25 kg
Shipping unit	42 bags per pallet
Amount of gauging water	6.0 l / 25 kg
Working time	approx. 30 minutes
Ready for foot traffic	after approx. 2 hours
Ready to receive flooring	after approx. 24 hours
Ready for parquet installation	
- up to 5 mm layer thickness	after approx. 24 hours
- more than 5 mm layer thickness	after approx. 48 hours
Load / stress resistance	from 1 mm layer thickness upwards resistant to castors that comply with DIN EN 12529
Temperature resistance after setting	up to max. +50 °C, can be used on heated floor structures
Temperature range for transport	-20 °C to +50 °C
Temperature range for storage	0 °C to +50 °C
Shelf life	at least 12 months if stored in a cool and dry place

The above times were measured under standard climatic conditions (+23 °C and 50 % rel. humidity). Please note that under other climatic conditions setting and drying may be accelerated or delayed.

CONSUMPTION

Layer thickness	Consumption	Coverage / bag
per mm	approx. 1.5 kg/m ²	
2 mm	approx. 3 kg/m ²	approx. 8.3 m ²
5 mm	approx. 7.5 kg/m ²	approx. 3.3 m ²
10 mm	approx. 15 kg/m ²	approx. 1.7 m ²

PREPARATION OF SUBSTRATE

The substrates must comply with the applicable standards and regulations. In particular, they must be clean, firm, dry and free of cracks or substances which may impair adhesion. The following maximum permissible residual moisture contents must always be observed (indicated in % by weight, measured with a CM moisture meter):

Screed type	Resilient and textile flooring, parquet and other wood flooring, laminate	
	Heated	Unheated
Cement screed	1.8 %	2.0 %
Calcium sulfate screed	0.3 %	0.5 %

The ingress of moisture into the floor structure must always be prevented by suitable measures (e.g. waterproofing membranes, barrier primers). This applies in particular to composite structures and concrete floors. In the case of cementitious substrates, any laitance must be removed with suitable machines. Always grind calcium sulfate screeds and vacuum off the dust. Smooth, impervious substrates such as ceramic tiles and slabs must always be stripped and sanded. Pretreat the substrate with a recommended THOMSIT primer before applying the levelling compound. Wooden substrates such as floorboards must be secured by retightening the screws and pretreated with a suitable THOMSIT primer. Joints between floorboards must be closed before applying the leveller (e.g. with acrylic joint sealants). Afterwards, fix the reinforcement fabric THOMSIT-Floor® TF 300 with a staple gun under slight tension (overlapping by approx. 3 cm in the seam area). When levelling the surface, make sure to keep a sufficient distance from the wall. Install floor vents or rear-ventilated skirting boards to ensure good ventilation of the wooden floor at all times. On firmly attached, pretreated floorboards with tongue and groove in living areas, the levelling compound can be applied directly without reinforcement fabric when covering the floorboards afterwards with textile flooring.

APPLICATION PROCEDURE

Fill the specified amount of clear gauging water into a clean mixing tub. Mix THOMSIT SL 85 with a suitable stirring device (e.g. THOMSIT TE 162 Exaquirl). Stir for about 2 minutes until the mixture is free of lumps. Apply the levelling compound in the required layer thickness using a squeegee or smoothing trowel. When applying layers of more than 10 up to 50 mm thickness, it is necessary to admix 30 % fire-dried quartz sand (THOMSIT QS 20, grain size 0 - 2 mm). THOMSIT SL 85 is suitable for machine application. For further information refer to the "Guideline for pumping levelling compounds" which can be downloaded from www.thomsit.com.

PLEASE NOTE

- Best possible indoor air quality after floor installation work requires conformity to the standard working conditions as well as completely dry substrates, primers and levelling compounds.
- Only carry out floor installation work if the floor temperature is above +15 °C, air temperature above +18 °C and relative humidity below 75 %.
- Wait until the applied layer is completely dry before continuing with the next steps. Make sure to provide favorable climatic conditions (recommended: 50 % RH and +20 °C) and adequate air circulation.
- There is danger of crack formation if the water is removed too quickly, caused e.g. by high room temperatures or highly absorbent substrates. Therefore protect the freshly applied layer from drying out too quickly. If possible, cover it with flooring within 14 days after application. If this is not possible, protect the surface against too rapid drying or rainfall, e.g. by covering it with protective sheeting.
- Protect the freshly levelled surface from direct sunlight and drafts.
- On non-absorbent and moisture-sensitive substrates (e.g. ceramic tiles, calcium sulfate screeds, wood/wooden boards, firmly adhering residues of adhesive etc.), we always recommend using a reactive resin primer with quartz sand sprinkling if the layer thickness is 10 mm or more.
- Apply a layer of at least 2 mm thickness on low- or non-absorbent substrates.
- Minimum layer thickness under parquet: 2 mm
- On mastic asphalt screeds, the levelling coat must have a maximum thickness of 5 mm.
- Do not use outdoors or in areas directly/indirectly exposed to moisture. If in doubt, use suitable moisture barriers.
- Do not use THOMSIT SL 85 as a screed or wearing surface.
- When applying thicker layers, drying can be accelerated with a condenser dryer 24 hours after applying the levelling compound.
- Clean the tools with water immediately after use.
- Tightly close the opened bag and use up the content as quickly as possible.

- When applied on soft layers (e.g. adhesive residues), cementitious levelling compounds are susceptible to cracking. Therefore remove such layers as far as possible before applying the compound.

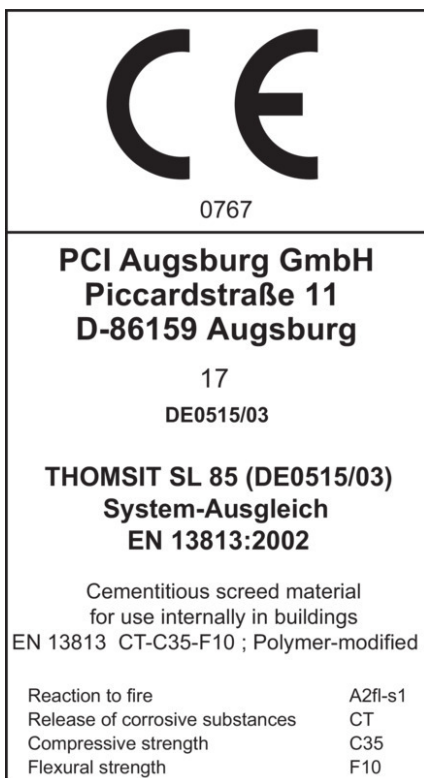
TECHNICAL INFORMATION

Make sure to observe the following standards and information sheets:

- DIN 18365 "Flooring Works"
- DIN 18356 "Parquet Works"
- Technical Briefing Notes issued by Technische Kommission Bauklebstoffe (klebstoffe.com, see "Publications"), in particular TKB-8 "Assessment and preparation of substrates" and TKB-9 "Technical specification and installation of floor levelling compounds"
- "Assessment and surface preparation of anhydrite flow screeds" issued by Bundesverband Estrich und Belag e.V. (BEB), www.beb-online.de
- "Assessment and preparation of substrates" issued by Bundesverband Estrich und Belag e.V. (BEB), beb-online.de
- Generally recognized rules of the trade as well as the applicable national standards and regulations

SERVICE FOR ARCHITECTS AND DESIGNERS

Please contact our sales force if you need advice or building project support. Further documents can be downloaded from the internet at www.thomsit.com.



DECLARATION OF PERFORMANCE

The Declaration of Performance can be downloaded as pdf file under www.thomsit.com.

PRODUCT SAFETY

Contains Portland cement. Causes serious eye damage. Causes skin irritation. Keep out of the reach of children. Wear waterproof, sturdy protective gloves as well as eye & face protection. In case of contact with the eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice / attention. In case of contact with the skin, wash with plenty of soap and water. If skin irritation occurs, get medical advice / attention. Ensure adequate ventilation during the application and drying process. Avoid eating, drinking and smoking while working with the product. Wear long pants during application. Keep children away from the fresh material. The longer fresh material remains on the skin, the greater the risk of serious skin damage. Information for allergy sufferers on +49 (821) 5901-0. For further information please refer to the Safety Data Sheet which is available at www.thomsit.com.

GISCODE ZP 1	Low-chromate according to EU Directive 2003/53/EG
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EMICODE EC 1	very low-emission
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DISPOSAL

Further information on disposal can be found on our homepage at <http://www.thomsit.de/services-seminare/entsorgungshinweise>. Do not allow the product to enter sewer systems, surface waters or the soil. Only return the completely emptied buckets for recycling. Dried material residues can be disposed of as household waste. Non-hardened product residues must be taken to a collection point for hazardous waste.

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The above information, in particular recommendations for the handling and use of our products, is based on our professional knowledge and experience. As materials and conditions may vary with each intended application and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for the intended application method and use. Legal liability cannot be accepted on the basis of the contents of this technical data sheet or any verbal advice given unless there is evidence of wilful intent or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.