

Polyurethane Levelling Compound

S 810

for heavy-duty and difficult substrates



FEATURES AND BENEFITS

- Self-levelling
- Hardens free of stresses
- Moisture- and weather-resistant
- Also for outdoor use

FIELDS OF APPLICATION

Solvent-free, two-component polyurethane smoothing compound for use on:

- mineral substrates
- bituminous substrates such as mastic asphalt, fine asphalt, bitumen adhesives and firmly compacted asphalt slabs
- firmly adhering studded rubber flooring, resilient flooring
- metal substrates.

Can be used as a migration barrier (e.g. against plasticizers) on granulated rubber underlays (e.g. Regupol and cork-rubber underlays). Particularly recommended for levelling moisture-sensitive substrates such as magnesite screeds or old sulfite liquor adhesives. Also for levelling substrates where heavy traffic loads are expected (e.g. rolling loads in industrial areas).

Also suitable for sealing PAH-contaminated substrates such as old wood flooring. In this case, please contact us for technical advice.

THOMSIT S 810 meets the highest demands for occupational safety, indoor air quality and environmental compatibility.

TECHNICAL DATA

	Comp. A	Comp. B
Supplied as	grey, paste	brown, liquid
Packaging	PP pail, 10 kg (comp. A + B)	
	PP pail, 25 kg only comp. A	
	PP pail, 6.25 kg only comp. B	
Shipping unit	39 x 10 kg unit per pallet	

	16 x 25 kg unit per pallet
	72 x 6.25 kg unit per pallet
Mixing ratio A : B	4 : 1 parts by weight
Potlife	approx 25 minutes
Working time	approx 40 minutes
Load-bearing	after approx. 8 hours
Ready for covering	after approx. 24 hours
Chemical resistance after	after approx. 7 days
Fire class	A2 _{fl} -s1
Temperature resistance	
after curing	-20 °C to max. +80 °C, can be used on underfloor heating constructions
for transport	-20 °C to +50 °C
for storage	+10 °C to +30 °C
Shelf life	at least 12 months, cool and dry

The above times are based on normal climatic conditions (23 °C / 50 % rel. air humidity). Other climatic conditions can cause a lengthening or shortening of cure and drying times.

CONSUMPTION

	Consumption	Coverage / unit	
		10 kg (A + B)	25 kg (A) + 6.25 kg (B)
Per 1 mm layer thickness	approx. 1.3 kg/m ²	approx. 8 m ²	approx. 24 m ²

PREPARATION OF SUBSTRATE

Substrates should comply with the applicable standards and regulations or comparable national standards. In particular they must be clean, free from structural defects, firm, permanently dry, and free of release agents. The following maximum permissible residual moisture contents must always be observed (indicated in % CM):

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. Grind adhesive residues and vacuum clean, loose areas must be completely removed. Dense, smooth surfaces, e.g. ceramic tiles, firmly adhering layers or old coverings must be roughened. Remove rust and grease from metal surfaces. In the case of cement-based substrates, any laitance must be removed using suitable machines. Always grind calcium sulfate screeds and vacuum clean. Prime absorbent screeds or metal surfaces with THOMSIT R 766 or THOMSIT R 755 before applying the levelling compound. In outdoor areas and in indoor areas on subfloors in direct contact with the soil, always use THOMSIT R 755 to seal off the substrate against capillary-rising moisture.

APPLICATION PROCEDURE

The levelling compound consists of two components (resin and hardener) supplied in separate compartments of the bucket. When using the 10 kg bucket, use a sharp pointed tool to punch several holes through the plastic plug and the bottom of the top container. Lift the top container slightly to allow the hardener to drain completely into the bucket below. When using the 25 kg bucket, pour the hardener (component B/6.25 kg) into the resin (component A/25 kg). Then carefully mix the resin and hardener using a hand drill with stirring attachment for at least 2 minutes and pour into a separate bucket. Do not scrape the bucket clean. Stir the product again. Pour out the levelling compound onto the substrate and spread evenly using an appropriate notched trowel.

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%.
- Remove fresh spots of adhesive immediately using THOMSIT TRT 10 cleaning wipes or commercially available alcohol (spirit). Clean equipment immediately after use in the same way. Adhesive contamination in the cured state can only be removed mechanically.
- Do not scrape the bucket clean.
- Pot life and curing time of the levelling compound depend on the temperature. They will be shorter at higher temperatures and longer at lower temperatures.

TECHNICAL INFORMATION

Please follow the instructions in the following information sheets:

- DIN 18365 "Flooring work".
- DIN 18356 "Parquet work".
- Technical Briefing Notes issued by Technische Kommission Bauklebstoffe (www.klebstoffe.com, see under "Publications"), in particular "Assessment and preparation of substrates", leaflet TKB-8.
- "Notes on the assessment and preparation of the surface of anhydrite flowable screeds" from the Federal Association of Screed and Flooring e.V. (BEB), www.beb-online.de.
- "Assessment and preparation of substrates" issued by Bundesverband Estrich und Belag e.V. (BEB), www.beb-online.de
- Generally recognized rules of the trade for flooring works as well as the applicable national standards.

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.

PRODUCT SAFETY

Hardener component

Contains: Diphenylmethane diisocyanate (MDI), isomers and homologues

Causes serious eye irritation. Causes skin irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause damage to organs (respiratory system) through prolonged or repeated exposure. May cause respiratory irritation. Suspected of causing cancer.

Do not inhale vapor or mist. Wear protective gloves/clothing and eye/face protection. Use only outdoors or in a well-ventilated area. In case of insufficient ventilation wear respiratory protection. Do not wear contaminated work clothing outside of the

workplace. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing. If inhaled: Remove person to fresh air and keep breathing unhindered. If exposed or concerned: Get medical advice/attention. Store in a well-ventilated place. Store under lock and key. Dispose of contents/container to hazardous waste disposal.

The following information sheet from the trade association for the construction industry, Bau-BG must be observed: Leaflet: BGI 524 Hazardous Substances in Polyurethane Production and Processing/Isocyanates (M 044). This leaflet can be obtained e.g. from Carl Heymanns Verlag KG, Luxemburger Straße 449, 50939 Cologne, or from Wiley-VCH Verlag GmbH, Pappelallee 3, 69469 Weinheim, as well as from the responsible professional associations.

Safety data sheet available at www.thomsit.com

GISCODE RU 1

solvent-free acc. to TRGS 610

EMICODE EC 1^{PLUS}

very low-emission

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.

PCI Augsburg GmbH

Piccardstraße 11, 86159 Augsburg,
Tel.: +49 821 5901 0

thomsit-info@pci-group.eu
www.thomsit.com

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.