Thomsit

AS 1 Rapid Anhydrite Levelling Compound

For layers of 1–20 mm in one single application

DER BLAUE ENGEL – weil emissionsarm – schützt UMWELT und GESUNDHEIT

GEV-EMICODE EC 1 very low emission

CE
0767
PCI Augsburg GmbH
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17
DE0522/01

Thomsit AS 1 (DE0522/01)
Rapid Anhydrit-Ausgleich
EN 13813:2002

Calcium sulfate screed material
for use internally in buildings
EN 13813 CA-C40-F10

Reaction to fire	A2fl-s1
Release of corrosive substances	CA
Compressive strength	C40
Flexural strength	F10

- Self-levelling and pumpable
- Produces smooth, low-pored surfaces
- Virtually tension-free
- Suitable for use on many old substrates
- High compressive and flexural strength

Fields of application

A very low emission calcium sulfate floor levelling compound for producing norm-conforming substrates ready to receive floor coverings. Thomsit AS 1 Rapid is suitable for use on suitable:

- new, firmly screwed particle and oriented strand boards (OSB)
- screed and concrete
- mastic asphalt screeds up to 10 mm thickness
- ceramic tiles, natural stone and terrazzo floors
- old substrates with firmly adhering, water-resistant adhesive residues.

Suitable for use under wood flooring if used in conjunction with elastic Thomsit adhesives. For use in dry indoor areas only. Do not use for producing screeds and wearing surfaces. Thomsit AS1 meets the highest requirements for occupational safety, indoor air quality and environmental compatibility.

Technical data

Supplied as	grey powder
Packaging	paper bag, 25 kg
Shipping unit	42 bags per pallet
Amount of gauging water	4.5 - 5.0 l / 25 kg
Working time	approx. 25 minutes
Ready for foot traffic	after approx. 3 hours
Ready for covering	
up to 3 mm layer thickness	after approx. 24 hours
for every further mm thickness	24 hours
Load-bearing	resistant to chairs with castors according to DIN EN 12529
Temperature resistance	
after curing	up to max. +50 °C, can be used on underfloor heating constructions
for transport	-20 °C to +50 °C
for storage	0 °C to +50 °C
Shelf life	6 months in paper bag, cool and dry 12 months in PE bag, 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

Layer thickness	Consumption	Coverage per 25 kg bag
per 1 mm	approx. 1.6 kg/m²	
2 mm	approx. 3.2 kg//m²	approx. 7,8 m²
5 mm	approx. 8 kg/m²	approx. 3,1 m²
10 mm	approx. 16 kg/m²	approx. 1,6 m²

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Preparation of substrate

Substrates should comply with the requirements of ATV DIN 18 365 "Flooring work", ATV DIN 18 356 "Wood flooring work", BS CP 8204 & 8201 or comparable national standards. In particular they mustbe 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.
In the case of cement-based substrates, any laitance must be removed using suitable machines. Always grind calcium sulfate screeds and vacuum clean. Dense, smooth surfaces, e.g. ceramic tiles, must be thoroughly cleaned and roughened.
Pretreat substrates with recommended Thomsit primers before applying the levelling compound. With calcium sulfate substrates, Thomsit AS 1 can be applied directly, before the dispersion primer is dry.
Pretreat wooden surfaces with Thomsit reaction resin primer or with Thomsit R 790 if the levelling compound is applied in layers of more than 3 mm thickness.

Application procedure

IPour the specific amount of clean water into a clean mixing tub and stir in 25 kg of Thomsit AS 1 using a suitable electric stirrer. Stir for about 2 minutes until the mixture is free of lumps. Apply the levelling compound in the required layer thickness using a smoothing trowel or spreader. On mastic asphalt and nonabsorbent substrates layer thickness must be a minimum of 2 mm. For layer thickness greater than 10 mm up to max. 20 mm, mix in 30 % firedried quartz sand Thomsit QS 20 (0 - 2 mm). Thomsit AS 1 can be applied by machine. For further information refer to the "Thomsit Pumping Guide" on 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 product is completely dry before continuing with the next steps. For this purpose, ensure favorableclimatic conditions (recommended: 50 % rel. humidity, 20 °C) and adequate air circulation.
- Danger of crack formation if the water is removed too quickly! Too rapid dehydration may be caused by high room temperatures or highly absorbent substrates. Therefore protect the freshly applied layer from drying out too quickly. If possible, cover with flooring within a max. period of two weeks. If this is not possible, the area should be protected against too rapid drying, e.g. by covering it with a protective sheet.
- Protect freshly installed surface from direct sunlight and draughts.
- Do not mix with other levelling compounds.
- Apply a layer of at least 2 mm thickness on mastic asphalt screeds and non-absorbent, mineral substrates.
- Do not use outdoors or in areas directly or indirectly exposed to moisture. If in doubt, use suitable moisture barriers.
- Do not use for producing screeds or wearing surfaces.
- When applying thicker layers, drying can be accelerated with a dehumidifier (condenser dryer) 24 hours after applying the levelling compound.
- Clean tools with water immediately after use.
- Close open bags thoroughly and use them up quickly.

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Product safety

The risk of medium- or long-term release of appreciable concentrations of volatile organic substances (VOC) into the ambient air is negligible. Nevertheless, ensure good ventilation during and after application and drying. Avoid eating, drinking or smoking while processing this product. Strongly alkaline reaction with moisture, so protect skin and eyes. After contact wash immediately with plenty of water. After eye contact also seek medical advice. Information for allergy sufferers on:
+ 49 180 2273112.
Keep out of reach of children.

For professional users.

Safety data sheet available on www.thomsit.com

Ingredients: calcium sulfate hemihydrate, quartz sand, low-chromate, portland cement, calcium carbonate, vinyl acetate-ethylene copolymer

GISCODE CP 1	calcium sulfate based levelling compound
EMICODE EC 1^{PLUS}R	very low-emission according to GEV
RAL UZ 113	Blue Angel, environmentally friendly

Technical information

Please also follow the instructions in the following information sheets:
1. Briefing notes of the Technische Kommission Bauklebstoffe (www.klebstoffe.com, see under "Publications")
2. Installation as well as cleaning and care instructions of the flooring manufacturers.
3. Generally recognized rules of flooring technology as well as the applicable national standards.

Disposal

Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil. Only recycle totally empty packages. Dispose of hardened product residues as industrial waste similar to household waste or in the container for commercial/construction site waste. Dispose of unhardened product residues as hazardous waste. European waste code number (EWC): 17 01 01

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