

AS1 RAPID



Anhydrite Levelling Compound

For layers of 1 – 20 mm in one single application

CHARACTERISTICS

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

SCOPE OF USE

A very low emission calcium sulfate floor levelling compound for producing norm-conforming substrates ready to receive floor coverings. Ceresit 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 Ceresit adhesives. For use in dry indoor areas only. Do not use for producing screeds and wearing surfaces. Ceresit AS 1 meets the highest requirements for indoor air quality and environmental compatibility.

SUBSTRATE PREPARATION

Substrates should comply with the requirements of 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):

Type of screed	Resilient and textile floor coverings, parquet and wood flooring, laminate flooring	
	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. water-proofing 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



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thoroughly cleaned and roughened. Pretreat substrates with recommended Ceresit primers before applying the levelling compound. With calcium sulfate substrates, Ceresit AS 1 can be applied directly, before the dispersion primer is dry. Pretreat wooden surfaces with Ceresit reaction resin primer if the levelling compound is applied in layers of more than 3 mm thickness.

APPLICATION

Pour the specific amount of clean water into a clean mixing tub and stir in 25 kg of Ceresit 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 a layer thickness greater than 10 mm up to max. 20 mm, Ceresit AS 1 can be bulked out with 30 % firedried quartz sand of grain size 0 – 2 mm. Ceresit AS 1 can be applied by machine. For further information refer to the "Guide for Pumping" on www.ceresit.com. The stripes of 2 m wide located along the building edge are exposed to the biggest wind powers and the number of anchors should be increased in these places up to min. 8 per m². Possibility of mechanical application. Recommended type of machine e.g. Wagner PC 15, PC 830 or SPG Baumaschinen PG 20 with the gun for mortar application. Fresh stains should be cleaned with water while hardened elements should be mechanically removed only.

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 favorable climatic 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 maximum 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.

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organizations and trade associations as well as the respective standards of the German Standards Institute (DIN). The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23 °C and 50 % relative air humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional 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 their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

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:

Keep out of reach of children. For professional users.

Safety data sheet available on www.ceresit.com Ingredients: calcium sulfate hemihydrate, quartz sand, low-chromate, portland cement, calcium carbonate, vinyl acetateethylene copolymer.

GISCODE CP 1 calcium sulfate based levelling compound
EMICODE EC 1^{PLUS} R very low-emission according to GEV.

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.

STORAGE

9 months in paper bag, cool and dry.

PACKAGING

Bags of 25 kg.

TECHNICAL DATA

Supplied as:	grey powder
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
Compressive strength:	C40 acc. to EN 13813
Flexural strength:	F10 acc. to EN 13813
Reaction to fire:	A2 fl-s1
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

Consumption:

Layer thickness	Consumption	Coverage per 25 kg bag
per 1 mm	approx. 1.6 kg/m ²	
2 mm	approx. 3.2 kg/m ²	approx. 7.8 m ²
5 mm	approx. 8.0 kg/m ²	approx. 3.1 m ²
10 mm	approx. 16 kg/m ²	approx. 1.6 m ²

The above data 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.



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