

SUPER MIX WEISS

QUICK CEMENT
FOR TERRAZZO AND
DESIGN SCREED

TECHNICAL DATA SHEET Page 1/2

Supermix Weiss ternary solid binder complies with the measures of the AgBB scheme as well as the DIBT additive principles. It was tested by the Institute for Building Biology in Rosenheim and certified to be environmentally compatible building materials, classified in emission class A+ as virtually emission-free.



APPLICATION AREA / PROPERTIES

- For Terrazzo and design screed
- For indoor and outdoor use
- For attractive, unique design of representative premises, such as sales rooms, restaurants, foyers, museums and office buildings
- Can be heated early

PROPERTIES

- Very good processing properties
- Large areas stable in form and with few joints
- Significantly higher early and final screed strength
- For dynamically strained usable surfaces
- White base color

SUPERMIX WEISS

Recommended dosage for a 200-liter mixture (observe initial and/or mandatory inspection as per standard compliance)

Days	Compression strength [N/mm ²]	Bending tensile strength [N/mm ²]	ratio Binder : aggregate	w/b-ratio	material consumption of a 10 mm layer
after 28 days	≥ 35	≥ 5	1 : 5 (62,5 kg : 300 kg)	max. 0,50	ca. 3,2 kg/m ²
after 28 days	≥ 45	≥ 6	1 : 4 (75 kg : 300 kg)	max. 0,45	ca. 3,8 kg/m ²

- TOPSICHT is perfectly suitable to achieve even surfaces and slow down drying out
- If not using TOPSICHT, the usable surface can be covered after smoothing with a foil for max. 24 hours, if needed.
- At temperatures below 5°C, the binding process of the binding agent will be delayed or completely interrupted (hydration and stability standstill)

AREA OF APPLICATION

- Supermix Weiss is perfectly suitable for sanded and troweled design screed. With a sanded appearance, individual effects can be achieved by interspersing or adding decorative granulation (such as marble, glass, etc.)
- Troweled appearance can be achieved by using either plastic or metal trowels where the metal abrasive wear will result in a different appearance with metal trowels
- Can be sanded and used 48 hours after completion
- Ideally suited to achieve brilliant colors by using color pigments
- Due to various options, we recommend creating sample surfaces at the customer's site

BUILDING CLIMATE CONDITIONS

- Note construction site preparation as per DIN 18560
- Protection from rain, draft and direct sun exposure during the curing phase
- Room and substrate temperatures not below 5°C and not above 30°C

SUBSTRATE PREPARATION

- The cement-bound substrate must be clean with open pores, absorbent and free of soft, removable components
- The load-bearing capacity of the substrate must correspond to the expected load
- In case of rolling strains, the surface tensile strength may be an average of 1.5 N/mm² where the smallest value may not fall below 1.2 N/mm²
- The substrate must be prepared using the common standards and the state of technology
- The prepared substrate must be capable of bearing loads, free of oil and grease and free of dust and separating agents
- According to DIN EN 197-1 for bonded screeds all substrates produced with normal cements are allowed. If modified screeds (except e-4 products) are suitable as a substrate or not, must be tested on your own responsibility. Direct bond to calcium sulfate screeds is not permitted. For bonded screed (screed on screed), make sure that the subfloor has at least the same quality as the top layer and a minimum thickness of 50 mm

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BONDED SCREED WITH MINERAL BONDING BRIDGE

- Please note the technical data sheet QUICKPICK

BONDED SCREEN WITH SYNTHETIC RESIN BONDING BRIDGE

- Please note the technical data sheets TPOX 5° or TPOX 10°

MIXING SUPERMIX WHITE BONDING SLURRIES

Fill approx. 9-12 liters of water with 500 ml Quickpick into the mixing container, then add a bag of Supermix Weiss, mix together and add water until contents have turned into ductile, mush-like slurry (not liquid, watery).

PROCESSING INFORMATION

- The mixing duration is min. 2 minutes after addition of all components
- Limit mixing water to minimum (water reduction or note W/B-value 0.45-0.50)
- For sanded systems, a compulsory mixer is recommended in order to avoid segregation and achieve an even surface
- For non-porous surfaces, it may be required to perform one or several shrink stoppings
- Installation: Compacting, exact stripping of the screed using conventional craft technique. To achieve a high degree of surface stability, machine-smoothing of the screed is required
- Please observe the general rules of screed laying, especially DIN 18560, screed in construction

RAW MATERIALS

- Supermix Weiss as per general dosage
- Supplement: pursuant to DIN EN 13139 and DIN 1045/2 grading curve A/B, 0-8 mm as well as 0-4 mm for the production of screed mortar
- Create determination of suitability of the grading curve for decorative granulation using a sample plate
- When using our products, no additives/binders from other manufacturers may be used

SAFETY INFORMATION

General industrial hygiene regulations must be observed when using our e-4 products!

STANDARDS AND INSPECTION REGULATIONS

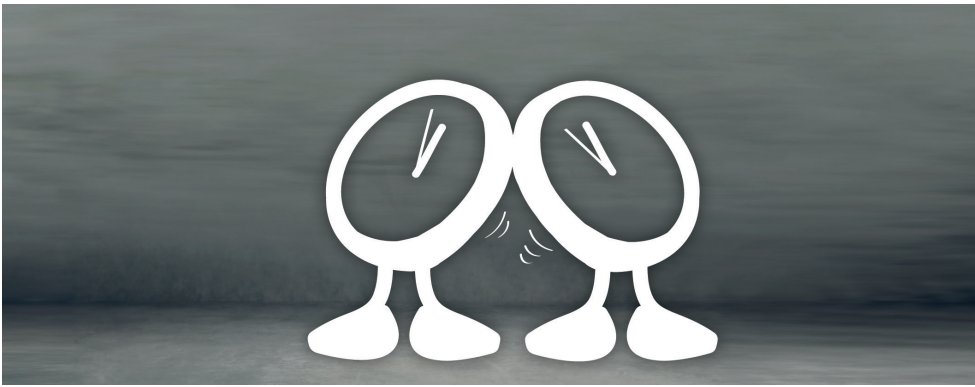
All common standards, provisions and crafts regulations apply, in particular DIN 18560, ÖNORM 3732, EN 13318, EN 13813, DIN 18353 and the work standards BEB newest version as well as the state of technology in screed laying.

Please note: The English translation is based on the German original. The translated version of the German data sheets is a courtesy translation and for informational purposes only. In case of dispute, controversy or inconsistency between the German version and the version in another language the German version is binding in accordance with the legal provisions. The German version is available on our website or will be sent upon written request.

Our information is based on our current experiences and developments thus we take warranty for the flawless quality of our products. We cannot assume responsibility for the success of the work carried out by you, as no legal liability can be derived due to different construction site conditions, laying techniques and construction work. We recommend creating a trial area for individual situations. Moreover, our General Terms and Conditions apply. With the publication of this technical data sheet, any previous versions are no longer valid.

Color: white
Form: powder
Form of delivery: bag of 25 kg

Shelf life: min. 6 months, store protected from sunlight and frost
Processing temperature: from +5 °C to +30 °C



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FIELD SIZES AND JOINTS

FIELD SIZE/JOINTS ON INSULATION AND SEPARATION LAYER

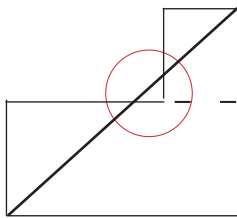
- Surfaces not fully heated must always be separated by an expansion joint (exception: unheated edge zones up to 1 m in width and kitchenettes)
- For design screed, it is recommended for appearance purposes to opt for joint areas which are not too large
- Create expansion joint between heated and unheated areas
- For areas with separate heat controls (heating circuits), create an expansion joint
- Heated areas up to approx. 100 m², unheated areas up to approx. 200 m² (max. side length 15 m) with a side ratio of 1:2, for which the floor plan areas
- L-areas or U-areas must be assessed as follows

Deviations from the previous points must be coordinated with e-4 GmbH.

EXAMPLES:

L-AREAS WITH FLOOR PLAN LENGTH

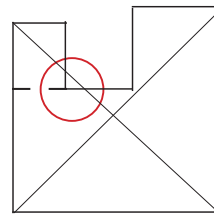
Bis 10 m beheizt und 15 m unbeheizt:



Divide L-areas into two areas in case of overlap (see red circle) and separate re-entrant corner using a suitable joint

U-AREAS WITH FLOOR PLAN LENGTH

Up to 10 m heated and 15 m unheated:



Separate U-areas in case of overlap (see red circle) using a suitable joint. The remaining L-area must be re-assessed.

Complex asymmetrical areas must be divided by expansion joints so that partial areas with the easiest possible geometries are created.

COMPOUND SCREED

- Compound screed can be completed without joints, except for building joints. Building joints must remain congruent
- A suitable substrate pursuant to the common standards must be ensured
- Use bonding slurries made from Supermix Weiss combined with Quickpick high-performance bonding bridge or bonding bridges from the TPOX product series (fresh in fresh)

FAIR-FACED SCREED TROWELED/SANDED

- Experience has shown that a grading curve 50/50 is ideal for the production of troweled fair-faced screed where the creation of a test surface through different laying techniques is required
- Trowel-smoothed screed should exhibit a thickness of ≥ 40 mm as the screed structure may otherwise be destroyed by the trowel.
- Create fair-faced screed without activator
- Due to the high requirements of fair-faced screed, they must have a mixing ratio of 1:5 (binding agent/grading curve)

INDUSTRIAL SCREED

- Industrial screed is possible with Supermix Weiss; such applications must be coordinated depending on the object