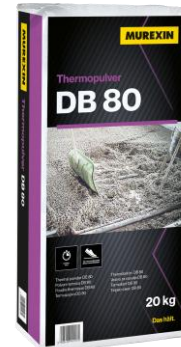


Thermal Powder DB 80

- > quick drying
- > high stiffness
- > reduces impact noise
- > high thermal insulation
- > high laying performance



Product description

Powdery binding agent tested according to EN 197-1 for bonded, load-bearing, heat and impact sound insulating levelling filler with, for example, polystyrene granulate.

On raw ceilings, on timber beam ceilings, floor panels and vaulted ceilings, as well as between wooden trammel layers, for insulating flat roofs with a gradients and as backfill material for thermal insulation. The bonded filler adjusts to the existing installation lines of the floor construction and any unevenness.

Delivery format

Container	Outer packaging	Pallet
20 KG / PS	-	48 PS

Storage

Can be stored frost-free, cool, and dry on wooden shelves in the unopened original container for 180 days

Processing

Recommended tools

Power mixer or suitable plaster or screed machines, balance slat, aluminium shovel.

Mixing

Thermal Powder DB 80 is mixed with, for example, polystyrene granulate and water to form a homogeneous mass. 80-100 kg of binder is required to solidify one cubic metre of polystyrene granulate.

Caution: Too little water can cause the mortar to dry out, too much water can cause the binder to wash away.

Processing

After mixing, the filler is applied to the area, compressed approx. 10% with a blade by lightly pressing, and stropped to the desired height with a balance slat. The binding agent is easy and

efficient to process. The levelling filler starts to set in less than one hour. The following work must take place under the lowest possible load of the thermal insulation and noise reduction filling.

Technical data

Density	dry insulation concrete density approx. 100 kg/m ³
Consumption	approx. 80 to 100 kg per m ³ polystyrene granulate
Water consumption	approx. 70 - 90 l/m ³ ready-to-use mixture
Mixing ratio	example 250 litres Mixer: 250 litres EPS / 20-25 kg DB 80 / 22.5 litres water
Processing time	approx. 45 min. at +20°C
Can be walked on	after approx. 24 hours (at 20 °C)
Object and material processing temperature	min. +5 °C / max. +30 °C
Processing temperature	min. +5 °C / max. +30 °C
Thermal conductivity (informational value)	0.0446 W/(m.K)

Test certificates

Tested in accordance with (standard, classification ...)
EN 197-1

Substrate

Suitable substrates

The substrate must be dry, clean and suitable for subsequent coating (thermal insulation, screed, etc.).

The standards and guidelines for the relevant structure must be observed.

Product and processing instructions

Material information:

- If processing outside the ideal temperature and/or humidity range the material properties could change markedly.
- Bring the materials to the proper temperature before processing!
- In order to maintain the product properties, do not add any foreign materials!
- Water dosing quantities or dilution information must be strictly adhered to!
- Check tinted products for colour accuracy before application!
- Colour consistency can only be guaranteed within the same batch.
- The colour formation is significantly impacted by the environmental conditions.

Environmental information:

- Do not process at temperatures below +5 °C!
- The ideal temperature range for the material, substrate and air is + 15 °C to + 25 °C.
- The ideal relative humidity range is 40% to 60%.
- Increased air humidity and/or lower temperatures may prolong the drying, setting and hardening time, while lower air humidity and/or higher temperatures will speed it up.
- Ensure adequate ventilation during the drying, reaction and hardening phase; avoid draughts!
- Protect against direct sunlight, wind and weather!
- Protect adjacent components!

Tips:

- We recommend using a test surface first or a small area for initial, small-scale testing.

10300, Thermal Powder DB 80, valid from: 11.06.2025, Nicole Zeiml, Page 2

Screed and Mortar technology

- Please heed the product data sheets of all MUREXIN products used in the process.
- Keep a genuine original container of the respective batch for later repair work.

The information provided reflects average values that were obtained under laboratory conditions. Due to the use of natural raw materials, the indicated values of individual deliveries may vary slightly without impacting the product suitability.

Safety instructions

Please refer to safety data sheet for product-specific information with regard to composition, handling, cleaning, corresponding actions and disposal.

Limiting and monitoring exposure

Personal protective equipment:

General protection and hygiene measures:

- Common safety measures for handling chemicals are to be observed.
- Keep away from foodstuffs, beverages and feedstuffs.
- Take off contaminated, impregnated clothing immediately.
- Wash your hands before taking breaks and when finishing work.
- Avoid contact with the eyes and skin.

Breathing protection:

- Wear breathing protection in case of inadequate ventilation.
- Filter P2.

Hand protection:

- Protective gloves.
- The glove material must be impermeable and resistant to the product/substance/preparation.

Glove material

- Use gloves made from stable materials (e.g. nitrile).
- The selection of a suitable glove depends not only on the material, but also on other quality properties, which may vary from manufacturer to manufacturer.

Penetration time of the glove material

- The precise penetration time is to be found out from the protective glove manufacturer and complied with.

Eye protection: tightly sealed protective goggles.

Body protection: protective clothing.

This leaflet is based on extensive experience, is intended to convey the best of our knowledge, is not legally binding and does neither constitute a contractual legal relationship nor a subsidiary obligation resulting from the bill of sale. The quality of our materials is guaranteed within the framework of our general terms and conditions. Our products may be used by professionals and/or experienced and accordingly technically skilled persons only. Users are not released from inquiring in case of uncertainties or from rendering professional workmanship. We recommend using a test surface first or a small area for initial, small-scale testing. Naturally, it is not possible to describe or foresee all possible current and future uses and peculiarities. Information that is assumed to be familiar to experts has been omitted.

Please observe the current, technical, national and European standards, guidelines and data sheets regarding materials, substrates and the subsequent construction. Please contact us if you have any reservations or doubt.

This version is rendered invalid if a new version is released. The most recent data sheets, safety data sheets and the terms and conditions are available online at www.murexin.com.