

## Leaflet



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Classic - *bagged goods*

# ThermoDyn®

Innovation in building

Classic



**The floor structure** is one of the most important assemblies in building construction. Under no circumstances should savings and technical savings be made here. Since you use and stress this area over and over again every day. Comparisons and the choice between different systems should be well thought out and scrutinised with appropriate expertise. **ThermoDyn** can cover a wide range of applications due to its non-comparable unique technical and economic features. What no other system can currently do.

**Dry granulate mixture** for quick and easy surface renovation. For the particularly economical production of fast-hardening and early-covering mature surfaces. **ThermoDyn** is available in a wide range of variants. Depending on the application, the different properties of this bagged product for mixing can be used. Whether craftsman or do-it-yourselfer, the application is possible without great effort and prior knowledge.

**ThermoDyn Classic** is a fast-setting environmentally friendly clay/rubber granulate height levelling compound for the uneven and difficult subfloor. Its adhesive and easy-to-lay properties gives this product the ability to adapt to almost all substrates. No additional insulating materials (polystyrene or foam jackets for pipes and substructures) are necessary. Obstacles can be easily overcome. The environmentally friendly building material combines sound insulation and thermal insulation properties in one product.

**This product** is suitable for all types of underfloor heating. For levelling, smoothing and repairing floor surfaces made of concrete, wood, brick, tiles and hard foam boards. For all types of floors, e.g. ceramic tiles and slabs, natural stone coverings, carpets, parquet, linoleum, PVC coverings and many more.



- Building renovations and new construction
- Short curing time >24h
- For the most difficult and uneven substrates
- Building material for flooded areas
- Indoor and outdoor
- Without water - no moisture in the building
- Suitable for underfloor heating and can be integrated
- Also suitable as backfill
- Sound and heat insulation in one
- No outgassing after setting
- Easiest overbuilding of obstacles
- Low overall height (from 10mm)
- Low weight (static)
- No setting after installation
- High abrasion resistance after sealing
- Environmentally friendly - ergonomic, anti-slip, non-rotting
- For all areas (wood, concrete, sand, clay....)
- For time-intensive areas
- Coupling to almost all materials
- Can be laid in several steps
- Reduces overall construction costs
- Simplest to use
- Changes after relocation are possible

<b>Areas of application</b>	For levelling, smoothing and repairing floor surfaces made of concrete, wood, brick, tiles, stable fillings and hard foam boards. For the subsequent laying of all types of floor coverings, e.g. ceramic tiles and slabs, natural stone coverings, carpets, parquet, wooden flooring, linoleum and PVC coverings.
<b>Suitable substrates</b>	Cement screeds, concrete and raw concrete surfaces (min. 3 months old), old tiles, old terrazzo, natural stone, heated floor constructions, plasterboard, metal-bearing elements, hard foam boards, load-bearing wooden constructions, clay and gravel floors.
<b>Layer thicknesses</b>	10 - 450 mm, greater layer thicknesses can also be created in several work steps
<b>Mixing ratio and curing</b>	Mix the pre-dosed <b>ThermoDyn</b> granulate mixture with the binder homogeneously and evenly without forming lumps or bulges. Empty the binder completely from the container and ensure an even feed.
<b>Maturity</b>	approx. 1 minute - can be used immediately
<b>Processing time</b>	30 - 60 minutes, depending on ambient temperature and humidity
<b>Accessible</b>	After approx. 24 - 48 hours; no adhesion of the granules to footwear; In case of a top coat sealant made of a cementitious compound, please observe the manufacturer's instructions.
<b>Processing-Temperature</b>	-10°C to +30°C, Application is also possible at temperatures below zero. Make sure that the binder/granulate mixing ratio is correct and that the mixture is uniform and homogeneous. In cold conditions, pre-temper the binder in a water bath (approx. 30°C - 40°C).
<b>Consumption</b>	approx. 6 kg/m <sup>2</sup> with 10 mm layer thickness
<b>Chair castor suitability</b>	From a top coat sealing over grain of 6 mm (roller load according to EN 12 529 )
<b>Delivery form</b>	approx. 20 kg bag incl. binder. ( <b>ThermoDyn Classic</b> )
<b>Curing time, Mature veneer</b>	After approx. 24 - 48 hours; data refers to the normal room temperature range of 20°C and 50% relative humidity; higher room and floor temperatures shorten, lower temperatures extend these times. To increase the pressure surface and to compensate for unevenness, a top coat of self-levelling flow filler with a minimum build-up thickness of 2-5 mm above the upper edge of the granulate is always required. Depends on the area of application of the dry composite screed. Adjust the consistency of the flowing filler as required. Recommendation: Application in 2 steps. Step 1: Mix filler according to manufacturer's instructions, apply with smoothing trowel and allow to harden. Step 2: Mix levelling compound according to manufacturer's instructions and apply sufficiently on trowel using a needle roller and notched trowel. The respective consistency depends on the filler/levelling compound used - follow the manufacturer's instructions. The thinner the dosage, the deeper the penetration of the filler/levelling compound into the pores. Do not forget to apply a primer on top of the filler.
<b>Tools and machines</b>	Double mixing paddle or compulsory mixer no concrete mixer, squeegee, smoothing trowel, clean tools immediately after use with <b>ThermoDyn</b> ToolClean. If available, use plastic tool for better cleaning.
<b>Storage</b>	Can be stored in the unopened original container in a dry and frost-proof place for binders on pallets for approx. 6 months after delivery. Pay attention to weather and direct sunlight.

<p><b>Properties</b></p>	<p><i>ThermoDyn</i> is a fast setting ecological dry composite screed levelling compound for the uneven substrate. Its adhesive and easy-to-lay properties give this product the ability to adapt to almost all substrates. No additional insulating materials (polystyrene or foam jackets for pipes) are necessary. Obstacles can be easily overcome. The ecological building material combines sound and heat insulating properties in one product. Suitable for underfloor heating.</p>
<p><b>Substrate preparation</b></p>	<p><i>ThermoDyn</i> adheres to almost all solid, load-bearing, dry, dimensionally stable substrates. No special pre-treatment or cleaning of the substrate is necessary. If necessary, the substrate can be cleaned of coarse dirt, must not have any moisture and must form a static load-bearing layer within itself. The subfloor must be able to absorb and transfer/dissipate the pressure loads of the topsoil. The relevant regulations and standards apply to the assessment of substructures. Secure to the ground with foil as a moisture barrier.</p>
<p><b>Preparation and processing</b></p>	<p>Mix <i>ThermoDyn</i> granulate with binder (enclosed packaging) evenly for approx. 3 minutes until uniform mixing has taken place. This can be done expertly with a compulsory mixer or fan hand whisk. Only mix as much material as can be processed in approx. 30-60 minutes. Empty the enclosed binder packaging completely and, if necessary, pre-heat to ensure complete emptying. Pay attention to and strictly avoid direct sunlight and rain. After a curing time of approx. 24 - 48 hours (at 20°C ambient temperature), further work can be started. The curing time depends on the ambient temperature, humidity and build-up thickness. The surface must be walkable. The curing time is extended depending on the thickness of the build-up and the ambient temperature of the floor.</p> <p>For further processing with tiles, elastic floor systems or similar building materials, the above-mentioned top coat sealers are required (levelling or/and levelling). Uneven substrates do <b>not</b> need to be pre-treated for <i>ThermoDyn</i>. Apply the evenly mixed compound (without lumps) to the substrate, fix it with a smoothing trowel and press it down in steps. Then level with a levelling bar and smooth or press with a smoothing trowel. Lay pipelines without insulation and remove other soft elements (e.g. foam sheathing). To prevent adhesion, we recommend our special anti-adhesion cleaner "ToolClean". If a light grain solution takes place on the surface after curing. Then these can be fixed with a fine-meshed fabric net. Ventilate rooms well during work.</p>
<p><b>Top layer and Coupling layer</b></p>	<p>With <i>ThermoDyn</i> it is possible to choose the most effective solution for the coupling layer depending on the top layer. If a solution with tiles or stoneware is chosen. Levelling of the intermediate layer to compensate for evenness and increase the pressure area is not absolutely necessary. However, if a solution with wood flooring, laminate, PVC or similar is selected, levelling of the intermediate layer with at least 2 - 3 mm above the grain size is necessary for evenness compensation. In principle, however, it is not a disadvantage to level the surface to even out and increase the pressure surface. This increases the compressive strength and the properties of <i>ThermoDyn</i> for laying top floors.</p>
<p><b>Safety notice and miscellaneous</b></p>	<p>The R-phrases and S-phrases must be observed. Keep out of the reach of children. See also the enclosed instruction leaflet and working instructions in each container. The data contained in this information are product descriptions. They represent general information based on our experience and tests and do not take into account the specific application. No claims for compensation can be derived from the information. If necessary, please contact our technical advisory service.</p>

**For further information, visit [www.thermodyn-shop.de](http://www.thermodyn-shop.de) or contact us at:**

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