Technical information Page 1 of 2 UDINULTIGRUND Base Coat

Product	A factory dried mortar as per DIN 18557 and DIN EN 998-1 in new generation. A mineral, coating- and reinforcing mortar for <i>Udi</i> <sup>®</sup> <b>Unger-Diffutherm</b> wood-fibre thermal insulation composite systems. It has been optimised to provide superior bonding, moisture storage capacity and stability properties. Suitable for manual and machine mixing/ application.
Application	Designed for use as a special coating and reinforcement mortar for the <i>Udi</i> <b>IN</b> <sup>®</sup> <sub>SYSTEM</sub> interior thermal insulation composite system. It is also an effective vapour control layer to restrict the level of condensation in interior insulation using <b>Unger-Diffutherm</b> wood-fibre insulation boards. It is used as coating and reinforcement mortar and as a bearer substrate for fine quality renders, paint coats and wallpapers etc.
Components	<ul> <li>Binding agents as per DIN 1164</li> <li>Mortar additives</li> <li>Special hydrocarbon-based additives</li> <li>Quartz sand 0 – 0.4 mm as per DIN 4226</li> <li>Alkali-resistant fibres</li> </ul>
Properties	A very efficient, high-performance, mineral, coating- and reinforcing mortar which provides optimal bonding to wood-fibre insulation boards and other substrates. Easy to mix and apply. When dry it is vapour resistant while at the same time possessing active-porous properties. The ideal base for all Unger-Diffutherm <i>Udi</i> Fine <sup>®</sup> Quality Renders, <i>Udi</i> PAINTS <sup>®</sup> and <i>Udi</i> LOAM <sup>®</sup> Renders.
Technical Data	Mortar group: CS III as per DIN EN 998-1, P II as per DIN 18550 Granularity: 0 – 0.4 mm Compressive strength: 4 – 9 N/mm <sup>2</sup> $\mu$ -Value: ca. 125 Water requirement: 4.0 – 5.0 I / Sack = 160 – 180 l/t Coverage: ca. 4,2 m <sup>2</sup> / Sack at a layer thickness of 4 mm Material consumption: Reinforcement: ca. 6 -8 kg/m <sup>2</sup> Reinforcement layer thickness: minimum 4 mm (depending upon the required vapour control value)
Delivery form	25 kg paper sacks. (42 sacks per pallet = 1,050 kg).
Storage	Dry, frost free, maximum storage period 6 Months.
Quality Assurance	Permanent quality control and monitoring including intake inspections of all raw materials.
Classification according to chemical regulations	<ul> <li>Hazard symbol: Xi irritant</li> <li>R-phrases:</li> <li>R 36/38: Irritating to eyes/Irritating to skin</li> <li>R 41: Risk of serious damage to eyes</li> <li>S-phrases:</li> <li>S 2: Keep out of reach of children</li> <li>S 24/25: Avoid contact with eyes and skin</li> <li>S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</li> <li>S 37/39: Wear suitable protective gloves/clothing and eye/face protection.</li> <li>S 46: If swallowed, seek medical advice immediately and show the container or label.</li> <li>Low in chromates as per TRGS 613 (German regulations for hazardous substances)</li> </ul>

The technical information provided in this document reflects our current state of knowledge and experience. Due to the wide range of influences possible during the installation and working of the products, this information does not release the installer from their responsibility to carry out their own trials and examinations. This also excludes the implication of a legally binding assurance of particular properties or the suitability for a concrete application. The generally accepted structural rules for construction must be complied with. We reserve the right to make any changes we deem necessary to improve the product or its application and installation. The information contained within this document supersedes all previously dated documents and the information contained within them is herewith invalid. Information relating to current developments is available on our website.

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## UdiMULTIGRUND<sup>®</sup> Base Coat

Substrate

In addition to the *Udi***IN**<sup>®</sup>**system** thermal insulation composite system, *Udi***CLIMATE**<sup>®</sup>**system** insulation boards and renderable wood-fibre insulation boards or mineral-based or absorbent substrates are also suitable for the application of this product. The surface must be clean, free of frost and sound enough for the application. Suitable substrates include mineral-based surfaces such as concrete, masonry, lime plaster, lime cement plaster and old renders within the render/mortar groups P 1 c, P II and P III as well as dispersion coatings as long as these are clean, dry, solid and capable of bearing the weight of the render layer. Hollow areas must be filled and loose material, old and/or loose paint layers, distempers and oil and grease must be removed. Adjacent/endangered areas (glass, ceramics, metal etc.) should be covered in order to protect them from splashes. Sandy surfaces should, if necessary, be stabilised using *Udi***BASE**<sup>®</sup> **LF** Solvent-Free Stabiliser.

The contents of a 25kg sack of UdiMULTIGRUND<sup>®</sup> Base Coat should be mixed with 4 - 5 | of Application clean, cold water and worked to a stiff, lump-free consistency. To ensure consistent results always instructions use the correct quantity of water and adhere to the recommended mixing times. When using an electric hand mixer or mechanical mixer please take into consideration the expansion characteristics of UdiMULTIGRUND® Base Coat. UdiMULTIGRUND® Base Coat should be applied to the whole surface using a stainless steel trowel with 10x20 mm teeth. While still wet, the UdiReinforcement® Strengthening Mesh should be bedded into the upper third of the coating nearest the surface and smoothed with a stainless steel trowel. Allow a 10cm overlap of the Udi Reinforcement<sup>®</sup> Strengthening Mesh around all edges. The final coating thickness MUST BE AT LEAST 6mm as the coating thickness dictates the actual level of the vapour barrier value! When covering adjacent areas it is important that the edges should not be allowed to dry out in order to avoid cracks and unsightly joins. Allow a drying period of one day per millimetre thickness of the UdiMULTIGRUND<sup>®</sup> Base Coat before applying any additional layers i.e. paints, wallpapers or finishing render.

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## Please note:

The mixing of foreign additives to the *Udi***MULTIGRUND**<sup>®</sup> **Base Coat** is not permitted! The fresh Base Coat is alkaline – take suitable precautions to protect both skin and eyes! Low temperatures and high humidity can markedly extend the drying/curing time. Before applying any further coating layers, it must be ensured that the *Udi***MULTIGRUND**<sup>®</sup> **Base Coat** has dried and hardened fully. It is important to ensure that the *Udi***Reinforcement**<sup>®</sup> **Strengthening Mesh** is not damaged or exposed. All tools should be cleaned immediately after use in clean, cold water. Do not apply or allow to dry at substrate and air temperatures below +5° C or above +30° C. Please comply with the requirements of DIN 18558 and DIN 18350 (VOB Part C).

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