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**Hessler**

KALK & PUTZ

# Das Hessler Kalksystem.

Qualität seit 1881

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## HP 90 KL Naturkalk-Lehmoberputz mit Hanf

### Composition: (full material declaration)

**HP 90KL Natural Lime Clay Finishing Plaster with Hemp consists** of natural hydraulic lime, building clay, limestone and quartz sand, hemp fibres and a small amount of methyl cellulose.

**Grain size: 1.0 mm.**

HP 90KL is a cement-free, mineral dry mortar premix of mortar group **CS I according to DIN EN 998-1**. It does not contain any synthetic binders, is highly water vapour resistant (diffusion resistance coefficient  $\mu = 6$ ) and resistant to fungal and mould growth.

### Application range:

HP 90KL is used as **decorative finishing plaster** or as levelling plaster for indoors. HP 90KL is versatile due to its clay content and increased application thickness.

### Substrate:

Ideal substrates are Hessler natural lime base coats, Hessler Kalk-Lehm-Grundputz (Natural Lime Clay Base Coat) or Hessler HP 14 Kalk-Haftputz (Natural Lime Adhesive Plaster). Lime-cement plaster, cement plaster and gypsum-containing substrates (gypsum plaster, gypsum boards, gypsum plasterboard) must be primed with **HP 9500 Biogrund (Bio Primer)**. For slab substrates, we recommend using **reinforcement fabric** with **HP 14 Kalk-Haftputz (Natural Lime Adhesive Plaster)** in addition to HP 9500 Biogrund (Bio Primer). This minimises the risk of cracking due to slab movement. Prime all previously wallpapered substrates (or if bleeding of substances is suspected) with **insulating primer**. First apply HP 14 Kalkhaftputz (Natural Lime Adhesive Plaster) to concrete (free of release agents) and uneven surfaces. HP 90KL can also be used as levelling plaster at an application thickness of approx. 10 mm, if required.

**Surfaces to be tiled** must be plastered with **HP 1 Kalk-Zementputz (Lime-Cement Plaster)** or **HP 1L**. Use HP 10 for the substrate preparation.

### Application:

HP 90KL can be applied with all common plastering machines and be processed in all standard conveyor systems (please observe the operating instructions of the machine manufacturer). When **working by hand**, mix the contents of the bag with approx. **8 litres of water** and stir without lumps until the desired consistency is obtained. Use e.g. a free-fall mixer or a suitable stirrer for this purpose. Allow to stand for approx. 10 minutes and stir again. Particularly highly absorbent substrates must be **pre-wetted**. The plaster thickness must be **approx. 3 mm as finishing plaster and approx. 10 mm as levelling plaster**. A two-layer wet-on-wet application is recommended.

Rub down with a sponge float / sponge disc (fine texture) after setting. If desired, the finishing plaster can also be smoothed or brushed. If a coat of paint is desired, a **drying time of approx. 1 day / mm layer thickness** must be observed (depending on e.g. temperature and air humidity). Clay paint, HP 9100 Sumpfkalkfarbe (Pit Lime Paint) and HP 9000 Kalk-Kaseinfarbe (Lime-Casein Paint) are particularly suitable as subsequent interior coating (also for damp rooms).

**Consumption rate:** A 25 kg bag makes approx. 16 litres of wet mortar.  
**Application thickness:** min. 3 mm / max. 10 mm  
**Spreading rate:** approx. 9.0/2.65 m<sup>2</sup> per bag at approx. 310 mm layer thickness (depending on nature of substrate)

**Please note:** DIN 18550 and DIN 18350 must be observed for assessing and preparing the plaster base. The plaster base must be absorbent, dry and free of dust, formwork oil, etc. Friable and loose parts must be removed. Surfaces that are unsuitable as a plaster base (e.g. wooden and iron parts, butt joints of building elements, etc.) must be provided with a plaster carrier. Plaster surfaces must be separated from wood by suitable measures. The air and/or object temperature must be **above 5 °C**. Pure lime mortars must be **protected from frost for at least four weeks**. Prevent the plaster from drying out too quickly. It may be necessary to **rewet** the plaster or keep it moist. Adequate **ventilation** must be ensured.

HP 90KL may only be used in its original state without any admixture.

**Packaging unit:** 25 kg bags, 42 bags / pallet  
Weight: approx. 1,050 kg / pallet

**Storage:** Dry, shelf life at least 6 months in closed packaging

**Quality monitoring:** HP 90KL is continuously monitored in the in-house laboratory for compliance with its composition and properties.

**Safety advice:** Mortar reacts strongly alkaline with moisture, therefore protect skin and eyes. In case of contact, rinse thoroughly with water. In case of eye contact, consult a doctor immediately.

For more information, please contact us by phone or in writing at:  
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