

# Technical Data Sheet

## HECK DP MIN

(Insulation Render)

**HECK DP MIN:** Dry factory-mixed mortar LW, CS I, W 2 (WA) / W 0 (OWA) in accordance with DIN EN 998-1

**Areas of Application:**

- for exterior and interior application; not for use on wall bases (for exterior application with water-repellent properties)
- as basecoat for thin- and thick-layer finishing coats
- as one-coat plaster for interior application
- Reveal insulation in indoor areas (without diffusion barrier, capillary-active, temporarily storing condensation water)

Component of the HECK mineral insulation render system, consisting of:

- Rajasil SPB or Welnet plaster lath
- HECK DP MIN / HECK finishing coats / Rajasil KP

Improvement of the thermal insulation of exterior and interior walls in old and newly-constructed buildings. Also for use as interior insulation in timber-framed constructions.

The responsibility for any usage outside these areas of application lies solely with the user.

**Composition:**

white lime hydrate, cement, lightweight mineral aggregates, max. grain size approx. 1 mm, water-repelling additives

**Technical Data:**

Thermal conductivity $\lambda$ :	0.09 W/(m·K)
Water vapor resistance coefficient $\mu$ :	approx. 7
Water absorption coefficient w:	< 0.5 kg/(m <sup>2</sup> ·h <sup>0.5</sup> ), W 2
Exterior:	interior insulation: approx. 10 kg/(m <sup>2</sup> ·h <sup>0.5</sup> ), W 0
Bulk density:	~ 0.4 kg/dm <sup>3</sup>
Cured mortar gross density:	~ 0.4 kg/dm <sup>3</sup>
Impact resistance:	~ 1 N/mm <sup>2</sup>
Fire behavior:	building material category A1 (non-combustible)

**Coverage:**

approx. 11 liters of dry mortar per m<sup>2</sup> and cm of render thickness (= 4 kg/m<sup>2</sup>/cm)

**Substrate/Preparation of the Substrate:**

Unrendered masonry; dry, clean and free from separating layers. Install render beads at wall bases, corners, terminations, etc. Generally, apply Rajasil SPB in a web-shaped pattern. On highly or unevenly absorbent substrates, mixed masonry, and lightweight wood shavings construction boards (see DIN 1102), apply Rajasil SPB fully-covering; allow Rajasil SPB to cure before proceeding.

On substrates providing insufficient bond, e.g. timber framings, brittle, organic bonded or brushapplied existing render, install Welnet plaster lath (no application of Rajasil SPB required). Pre-wet absorbent substrates.

**Application and Substrate Temperature:**

+ 5 °C minimum; lower temperatures during the curing phase can have a sustained negative effect on product properties.

With high temperatures (and/or strong wind), additional measures are necessary to prevent premature loss of mixing water.

**Application:**

Application thickness 2 - 10 cm; max. 40 mm / coat (on rough and absorbent substrates)

Mix entire content of bag with 10 to 11 liters of tap water to a lump-free consistency; allow to sit briefly, and stir up again (prepare complete bag only). Application with conventional plastering machines (e.g.UMP 1, Deutsche Fördertechnik GbR / G 4, PFT) is possible without any special equipment.

If applied manually, lay on a thin mortar layer with steel float D 6 - 3 and then throw on with trowel. Then, using some pressure, trowel flat with smoothing board. In case of multi-coat application, roughen each individual coat. 7 days per cm of plaster thickness between the application processes for the individual plaster layers must be complied with.

On surfaces prone to cracking (e.g. roller shutter casings etc.) and at felted-finish decorations around window/door jambs, embed HECK AGG FINE into upper third of render layer; make sure edges of mesh overlap by 10cm min. At corners and openings in the masonry, install diagonal reinforcements.

<b>Application:</b>	<p>The plaster surfaces must be roughened well between the individual plaster layers before the finishing plaster is applied. The drying periods of approx. 7 days per cm of plaster thickness between the application processes for the individual plaster layers and prior to the application of the finishing plaster must be complied with.</p> <p>If a thick-layered finishing plaster, such as Rajasil EP WD (Edelputz WD, decorative render) or Rajasil KP (Kalkputz, lime render), is going to be applied or if several layers are applied, the surface is additionally combed during the initial curing process.</p>
<b>Coating:</b>	<p>If a thin-layered textured plaster, such as HECK ED (Edel-Dekor, decorative render) or HECK STR (Strukturputz, textured plaster), is going to be applied as finishing plaster, a prime coat using HECK UG (Universalgrundierung, universal primer), is applied after the drying period of 7 days per cm of plaster thickness has been complied with. An intermediate layer of plaster is not required.</p> <p>Thick-layered finishing plasters, such as Rajasil EP WD (Edelputz WD, decorative render) or Rajasil KP (Kalkputz, lime render), and application based on Rajasil KFP (Kalkfilzputz, lime render) or HECK K+ A PLUS with a spatula can be applied directly after a drying period of approx. 7 days per cm of plaster thickness without applying a prime coat.</p> <p><b>Paint coats:</b>  exterior application:  highly water-repellent and vapor permeable coating systems, such as Rajasil SIF or Rajasil SHF  interior application:  vapor permeable coating systems, e.g. Rajasil SIF INTERIOR</p>
<b>Notes:</b>	<p>Observe relevant Technical Data Sheets of other system components.</p> <p>Apply render joints using a pointing trowel; incorporate construction elements, e.g. window sills, elastically into the render system.</p> <p>Only install EIFS-suitable windows sills whose thermal expansion does not exert any pressure on the render system.</p> <p>In order to reduce surface heat-up, colors for finishing coat must have a luminosity &gt; 20.</p> <p>When applying interior insulation, a building physics analysis as to condensation in accordance with DIN 4108, part 3, must always be performed.</p> <p>At wall bases, use Rajasil LSP or the HECK wall base system with PS 30 SE insulation boards.</p> <p>The Welnet plaster lath is a zinc-coated steel mesh; dimensions: 1.0 x 2.1 m, 16 x 16 mm mesh aperture, 1.05 mm wire thickness. It is available in mesh thicknesses of 20 or 30 mm (render coating of 1 cm required). It is installed using at least 6 anchors per m<sup>2</sup> in conjunction with an installation claw. Use anchor type UR-Z 10/100 for solid masonry, and anchor type UL-R 10/100 for lightweight and perforated masonry.</p> <p>Over structural-dynamical cracks or wooden construction elements, place Rajasil Trennvlies between substrate and plaster lath.</p> <p>Clean tools with water immediately after use.</p>
<b>Safety Instructions:</b>	<p>HECK DP MIN contains lime and cement and thus reacts alkaline when fresh.</p> <p>Avoid contact with skin; If product gets on skin, wash off immediately. If product gets in eyes, thoroughly rinse with water immediately and seek medical attention. If product is swallowed, seek medical attention immediately. Wear suitable protective gloves.</p> <p>Keep product out of the reach of children.</p> <p>For further information, see Safety Data Sheet.</p>
<b>Storage:</b>	<p>Store in a dry place; shelf-life in original container: approx. 9 months.</p>



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**HECK Wall Systems GmbH**  
Thöläuer Straße 25  
95615 Marktredwitz / Germany  
T: +49 9231 802-330  
F: +49 9231 802-330  
[www.wall-systems.com](http://www.wall-systems.com)