

# Technical Data Sheet

## HECK DP EPS

(Insulation Render)

**HECK FF DP EPS:**

Insulation render system in accordance with DIN V 18 550

**Properties:**

can be applied manually or by machine  
 low-tension curing due to lightweight aggregate  
 thermally insulating  
 water-repellent  
 highly water vapor permeable  
 color: light grey

**Areas of Application:**

for exterior and interior application; not for use on wall bases; not suitable as finishing coat  
 Component of the HECK insulation render system, consisting of:  
 Rajasil SPB or Welnet plaster lath  
 HECK DP EPS / HECK K+A PLUS / HECK finishing coats, Rajasil KP  
 (for exterior application with water-repellent properties)  
 Improvement of the thermal insulation of outer and inner walls in old and newly-constructed buildings.  
 Ideal on mixed masonry and other problematic substrates; also for use as capillary active 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 and lightweight organic aggregates, sands, max. grain size approx. 2.5 mm, water-repelling additives

**Technical Data:**

Thermal conductivity value $\lambda_R$ :	0.07 W/(m·K)
Water vapor resistance coefficient $\mu$ :	approx. 8
Water absorption coefficient w:	< 0.5 kg/(m <sup>2</sup> h <sup>0.5</sup> )
Cured mortar gross density:	≥ 0.20 kg/dm <sup>3</sup>
Impact resistance:	0.40 N/mm <sup>2</sup>
Fire behavior:	building material category B1 (low flammability in accordance with DIN 4102)
Coverage:	approx. 12 l / m <sup>2</sup> / cm

**Coverage:**

approx. 12 liters of dry mortar / m<sup>2</sup> and cm of render thickness

**Substrate/Preparation of the Substrate:**

Unrendered masonry; dry, clean and free from separating layers. Install render beads at wall bases, corners, terminations, etc. On smooth or low-absorbent substrates, apply Rajasil SPB in a webshaped pattern. On highly or unevenly absorbent substrates, mixed masonry, and lightweight wood shavings construction boards (see DIN EN 13168), 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 brush-applied existing render, install Welnet Putzträger plaster lath. 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 environmental temperatures (and/or strong wind), additional measures are necessary to prevent premature loss of mixing water.

**Application:**

Application thickness: 2 - 10 cm; max. 5 cm / layer  
 Mix entire content of bag with 12 to 15 liters of tap water to a lump-free consistency; allow to sit briefly, and stir up again (prepare complete bags only).  
 Special equipment is required for application with plastering machine.  
 If applied manually, lay on a thin mortar layer with steel float and then throw on with trowel. Then, using some pressure, trowel flat with smoothing board; do not felt/sponge-float. During the setting process, key/rake up surface slightly. Wait at least 1 week before proceeding with further work steps.

**After Treatment:**

Protect freshly applied insulation render from premature loss of mixing water (sun, wind, high temperatures), frost and rain.

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**Surface Coating:**

with mineral HECK finishing coats (e.g. textured render, decorative render)

**1. Exterior application** - suitable for application **directly onto insulation render:**

HECK ED WP, HECK K+A PLUS, Rajasil EP WD types Kratzputz medium-fine / medium, Kellenwurf medium / coarse, Altdeutscher Putz medium, Scheibputz medium

2. In addition, for interior application the following can be applied directly:

HECK K+A PLUS, Rajasil KFP, HECK ED WP; application thickness approx. 6 mm; embed HECK AGG FINE centrally.

Alternatively, Rajasil KP fine can be applied in 8 to 10 mm thickness. Embed HECK AGG FINE into upper third of render layer.

3. When using finishing coats of a thickness below 8 mm or thin-layer textured renders, an **intermediate render layer is required for exterior application.**

Apply **HECK K+A PLUS** at a thickness of 6 to 8 cm as undercoat; trowel flat and roughen/comb scratch for Edelputz WD or trowel flat for textured renders. Minimum waiting time: 1 day per mm of render thickness. For protection against crack formation, embed HECK AGG FINE into upper third; allow mesh to overlap by 10 cm. Install diagonal reinforcements at all corners.

Only use open-porous coating systems on HECK insulation render, e.g. Rajasil SIF, Rajasil SHF, or Rajasil SIF INTERIOR. On interior surfaces, the application of a vapor-retarding paint coat may be necessary.

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**Notes:**

Observe relevant Technical Data Sheets of other system components.

Apply render joints using a pointing trowel; incorporate construction elements, e.g. window sills, elastically into the render system.

Only install EIFS-suitable windows sills whose thermal expansion does not exert any pressure on the render system.

In order to reduce surface heat-up, colors for finishing coat must have a luminosity > 20.

When applying interior insulation, a building physics analysis as to condensation in accordance with DIN 4108, part 3, must always be performed.

At wall bases, use Rajasil LSP or the HECK wall base system with PS 30 SE insulation boards.

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 with at least 6 anchors per m<sup>2</sup> in conjunction with an installation claw.

Anchor type UR-Z 10/100 is for solid masonry; anchor type UL-R 10/100 for lightweight and perforated masonry.

Over structural-dynamical cracks or wooden construction elements, place Rajasil Trennvlies between substrate and plaster lath.

Clean tools with water immediately after use.

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**Safety Instructions:**

HECK DP EPS contains lime and cement and thus reacts alkaline when fresh.

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. Keep product out of the reach of children. If product is swallowed, seek medical attention immediately. Wear suitable protective gloves.

For further information, see Safety Data Sheet.

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**Storage:**

Store in a dry and well-ventilated place; shelf life approx. 12 months

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**Quality Control:**

Internal and external control of production

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