

# Technical Data Sheet

## HECK K+A

**HECK K+A:** Dry factory-mixed mortar with PWS-technology, mineral-based adhesive and reinforcement compound; GP, CS IV, W 2 in accordance with DIN EN 998-1 (P III in accordance with DIN V 18 550)

**Properties:**

- can be applied by hand or using a rendering machine or feed system
- water vapor permeable and water-repellent
- fibre-reinforced
- suitable for felt-float finish
- colors: white, grey

**Areas of Application:**

For exterior and interior use; also for wall base application

- for the installation and reinforcement of insulation boards in HECK insulation systems EPS and MW/L-MW
- for reinforcing and subsequent felt-float finishing in a second layer
- for the smoothing and levelling of suitable mineral substrates

Also suitable for the placing of diagonal and corner reinforcements. Please adhere to suggested layer thicknesses. This also applies to corner reinforcements.

Application in connection with External Insulation Finishing Systems:

- as thin-layer reinforcement compound (4-6 mm) with embedded HECK AGG FINE
- as thick-layer reinforcement compound (6-8 mm) with embedded HECK AGG FINE, and in HECK ceramic systems with HECK AGG CER
- as a thin layer for felt-float finishing (layer thickness approx. 2 mm) in a second work step on smaller surfaces, e.g. wall bases

Application in facade refurbishment:

- as reinforcement compound (3-5 mm) with HECK AGG FINE on firm, stable mineral renders CS II - IV in accordance with DIN EN 998-1 (PII, III in accordance with DIN V 18 550).

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

**Composition:**

White lime hydrate; cement; carefully composed aggregates; admixtures for the improvement of workability and adhesive and water-repelling properties; fibers

**Technical Data:**

thermal conductivity value $\lambda_R$ :	0.87 W/(m·K)
resistance to water vapor permeability $\mu$ :	approx. 25
maximum grain size:	approx. 1.0 mm

**Coverage:**

**Adhesive:**

spot bonding (rail system):	approx. 2 kg/m <sup>2</sup>
ribbon and dab method (minimum 40%) / whole area application:	approx. 4 kg/m <sup>2</sup>
partial area application*:	approx. 6 kg/m <sup>2</sup>
void-free application to entire surface*:	approx. 8 kg/m <sup>2</sup>

This data is valid for level, smooth substrates. When levelling unevennesses, the required amount of the product may increase!

\*application of adhesive onto masonry

**Levelling compound and reinforcement mortar:**

approx. 1.2 kg of dry mortar per m<sup>2</sup> and 1 mm of layer thickness

With machine application, the required amount of the product may increase!

**Substrate/Preparation of the Substrate:**

Make sure work area is well-covered before starting!

Bonding of insulation boards and application on mineral substrates:

The substrate has to be level, structurally sound, clean, dry and free of grease and dust.

Cleaning is recommended. Always remove crumbly or non-adhering render or loosely-adhering old paint as well as algae thoroughly.

Before applying the adhesive or render: level hollow joints, flaws in the masonry and larger cavities and trowel flush with the surface; during the setting process, comb scratch surface and allow to cure. Pre-treat substrates with a sandy, chalky, highly absorbent surface and organic bonded substrates once with Rajasil TG W.

As reinforcement on insulation boards:

Insulation boards must be installed even and flush; joints still open between insulation boards must be closed with suitable insulation material or HECK PU-Schaum B1; clean away any swarf, if present.

Profiles, anchors, joint sealing tapes and render beads must be placed, as well as corner and diagonal reinforcements.

Do not use the actual reinforcement layer for levelling of the substrate.

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**Application and Substrate Temperature:**

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

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**Application:**

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

Mix the content of a bag and the required amount of tap water in a mortar bucket to a lump-free consistency using a power stirrer; let mix sit for approx. 10 minutes; stir up thoroughly again before application and use up within 1 hour approximately.

**Bonding:**

With uncoated mineral wool insulation boards: apply a thin layer of the adhesive using a lot of pressure first.

Then, apply the adhesive mortar to the back of the insulation board using a serrated trowel (10mm) or an adhesive applicator gun; for partial area application and void-free application, apply adhesive to masonry. For ceiling application: please test beforehand whether additional measures, such as mechanical fastening or supporting during the curing phase, are necessary.

**Reinforcement:**

Apply mortar in required layer thickness to (dry) insulation boards using a stainless-steel trowel. Then embed HECK AGG into the upper third (let mesh overlap by at least 10 cm); touch up if required.

For the subsequent application of thin-layer finishing coats, level surface with stainless-steel trowel.

For a felted finish, leave the surface as it is. For thick-layer decorative renders, roughen up surface without exposing the mesh. Perform surface roughening only after sinter skin has formed.

**Felted-finish surfaces:**

Let reinforcement layer cure for 24 hours; then apply HECK K+A to reinforcement layer in 2 mm layer thickness using a stainless-steel trowel; level surface, and, after the setting process has set in, finish using white sponge float preferably.

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**After Treatment:**

Protect freshly-applied mortar from premature dehydration (sun, wind, high temperatures), frost and rain. Protect from rear moisture intrusion during installation.

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**Surface Coating:**

With HECK finishing coats (Rajasil EP WD, HECK EP KR JURA, HECK ED, HECK STR, HECK SIP, HECK SHP), HECK facing slips or suitable ceramic claddings.

Before applying a finishing coat, apply the appropriate primer first where applicable. Before applying a primer, finishing coat, or ceramic cladding, allow for a resting period of at least 1 day per 1 mm of layer thickness depending on weather conditions.

At wall bases:

- Rajasil silicon resin paint system, consisting of two-coat priming with Rajasil NIG and two-coat application of Rajasil SHF.
  - HECK SHP and corresponding primer.  
Protect render system in contact with the ground from rear moisture intrusion. For this, use Rajasil DB or Rajasil DS FLEX.
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**Notes:**

Please consult technical guideline "Application HECK MultiTherm" and/or complementary Data Sheets of relevant products.

When dressing EPS boards with a grooved surface, apply two mortar layers.

Clean tools with water immediately after use.

When installing EIF systems, observe applicable technical approvals. They are available from us upon request free of charge.

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**Safety Instructions:**

HECK K+A contains lime and cement; freshly-applied mortar thus reacts alkaline. Avoid contact with skin; if product gets on skin, wash off immediately. If product gets in eyes, flush with water thoroughly and seek medical attention. Keep product out of the reach of children. If product is swallowed, seek medical attention immediately. Wear suitable protective gloves during work. For further information see Safety Data Sheet.

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**Storage:**

Store in a dry place; shelf-life in original container: approx. 6 months

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**Quality Control:**

Constant monitoring of production through laboratory analyses; internal and external production process quality control.

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