

# Technical Data Sheet

## HECK K+A PLUS

<b>HECK K+A PLUS:</b>	Mineral, lightweight adhesive and reinforcement compound and finishing coat in accordance with DIN EN 998-1, CS II, W 2										
<b>Properties:</b>	<ul style="list-style-type: none"> <li>- can be applied by hand or using a rendering machine or feed system</li> <li>- water vapor permeable and water-repellent</li> <li>- fiber-reinforced</li> <li>- colors: white, pastel based on color card</li> </ul>										
<b>Areas of Application:</b>	<p>For exterior and interior use; also for wall base application.</p> <ul style="list-style-type: none"> <li>- for the installation and reinforcement of insulation boards</li> <li>- for the fashioning of felt-float finished or textured surfaces</li> <li>- for the restoration of existing EIF systems and cracked stucco on facades</li> <li>- for the levelling of suitable mineral and organic substrates (e. g. structurally sound synthetic resin renders or coatings; if necessary, prime beforehand)</li> <li>- also suitable for the placing of diagonal and corner reinforcements</li> </ul> <p>Please adhere to suggested layer thicknesses. This also applies to corner reinforcements.</p> <p>Application as part of the HECK EIF system and for facade renovation:</p> <ul style="list-style-type: none"> <li>- as bonding mortar for insulation boards using the ribbon and dab method or floating-buttering application</li> <li>- as reinforcement compound (layer thickness 3-5 mm) directly on concrete, even masonry or firm render substrates; if necessary, embed HECK Armierungsgewebe fein (mandatory on EIFS systems and similar substrates)</li> </ul> <p>Application as finishing coat:</p> <ul style="list-style-type: none"> <li>- as finishing coat (layer thickness 2-3 mm) with felt float finish or textured surface structure directly onto a HECK K+A PLUS undercoating; renders P II and upwards or similar substrates</li> </ul> <p>The responsibility for any usage outside these areas of application lies solely with the user.</p>										
<b>Composition:</b>	White lime hydrate; cement; washed quartz grit; admixtures for the improvement of workability and adhesive and water-repelling properties; fibers										
<b>Technical Data:</b>	<table border="1"> <tr> <td>maximum grain size:</td> <td>approx. 1 mm</td> </tr> <tr> <td>thermal conductivity coefficient <math>\lambda_R</math>:</td> <td>0.87 W/(m·K)</td> </tr> <tr> <td>resistance to water vapor permeability <math>\mu</math>:</td> <td>approx. 20</td> </tr> <tr> <td>water absorption in accordance with ETAG 004:</td> <td><math>W &lt; 0.5 \text{ kg/m}^2</math></td> </tr> <tr> <td>water absorption coeff. in accord. with EN 1015-18: 2002:</td> <td><math>W 2 (c &lt; 0.20 \text{ kg/m}^2 \text{ min}^{0.5})</math></td> </tr> </table>	maximum grain size:	approx. 1 mm	thermal conductivity coefficient $\lambda_R$ :	0.87 W/(m·K)	resistance to water vapor permeability $\mu$ :	approx. 20	water absorption in accordance with ETAG 004:	$W < 0.5 \text{ kg/m}^2$	water absorption coeff. in accord. with EN 1015-18: 2002:	$W 2 (c < 0.20 \text{ kg/m}^2 \text{ min}^{0.5})$
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<b>Coverage:</b>	Approx. 1.0 kg of dry mortar per $\text{m}^2$ and mm of layer thickness. Coverage may decrease when applied by machine or where uneven substrates have to be levelled!										
<b>Preparation of the Substrate:</b>	<p>Insulation board installation and use as levelling compound 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. 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, work surface with notched trowel; allow to harden.</p> <p>Pre-treat substrates with a sandy, chalky, highly absorbent surface and organic bonded substrates with Rajasil TG W once.</p> <p>Reinforcing 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.</p>										
<b>Application and Substrate Temperature:</b>	+ 5 °C minimum										

<b>Application:</b>	<p>For layer thickness refer to "Areas of Application" section (all in all approx. 5-8 mm)  Mix the content of a bag and the required amount of tap water in a mortar bucket to a lump-free, creamy consistency using a power stirrer; let mix sit for approx. 10 minutes; stir up thoroughly again before application and use up within 2 hours maximum. Apply the product with the utmost care as to evenness of layer thickness, especially for felt-float finished surfaces. Using a notched trowel for application may prove helpful.</p> <p><b>Bonding:</b>  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 panel using a notched trowel (10mm) or an adhesive applicator gun; for partial area application and void-free application, spray-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.</p> <p><b>Reinforcement:</b>  Apply mortar in required layer-thickness to (dry) insulation panels using a stainless-steel trowel. Then embed HECK Armierungsgewebe (reinforcement mesh) into the upper third (let mesh overlap by at least 10 cm); touch up if required. For the subsequent application of thin-layered finishing coats, level the surface with the stainless-steel trowel. For thick-layered decorative renders, roughen up surface without exposing the mesh. Perform surface roughening only after sinter skin has formed.</p> <p><b>Felt-float finished surfaces and textured surfaces:</b>  After the reinforcement layer has been prepared, apply HECK K+A PLUS "fresh-in-fresh" in a 2 mm layer using a stainless-steel trowel. Wait for approximately 4 hours after applying this layer before rubbing down with felt float. This waiting time is due to the fact that the setting process must have set in throughout the entire render layer. With cool or humid weather conditions or moist or low-absorbent substrates, this period may increase; with highly absorbent substrates or dry weather, it may decrease. It may thus be advisable to wait for a day before applying the post-reinforcement upper coating for the felt float finish; or, respectively, in dry weather, not to work on too large an area at once.  With textured surfaces, texturing can always be performed on the same day.</p>
<b>After Treatment:</b>	Protect freshly-applied mortar from premature dehydration (sun, wind, high temperatures), frost and rain.
<b>Surface Coating:</b>	<p>Allow for a resting period of at least 1 day per 1 mm of layer thickness.  Two-coat paint application is recommended as a prophylactic against algae formation (exceptions possible - on-site advice necessary.) Suitable for this is, for example, Rajasil Siliconharzfarbe.</p> <p><b>At wall bases:</b>  Rajasil silicon resin paint system, consisting of two-coat priming with Rajasil NIG and two-coat application of Rajasil SHF. Protect render system on surfaces in contact with the ground from rear-moisture intrusion. For this, use Rajasil DB or Rajasil DS FLEX.</p>
<b>Notes:</b>	<p>Please consult Technical Data Sheets of auxiliary products as well as HECK application guidelines and follow common rules for render application onto the substrates mentioned!  Clean tools with water immediately after use.  The application of felt-float finished surfaces is a manual craft and will therefore never yield absolutely even results. In certain light conditions, unevennesses or shades may be perceptible. Due to the usage of mineral raw materials, follow-up deliveries may vary in color. For continuous surfaces use only material from the same production batch. Variations in color over the course of time due to environmental factors, e.g. UV impact, staining etc., are not covered by warranty. Technical functionality remains unaffected. The possibility of the formation of algae or mould cannot be ruled out over extended periods of time and does not constitute a reason for complaint.</p>
<b>Safety Instructions:</b>	<p>The product contains lime and cement; fresh 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.</p>
<b>Storage:</b>	Store in a dry place; shelf-life: approx. 9 months.
<b>Quality Control:</b>	Internal and external production process control.



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**HECK Wall Systems GmbH**  
Thöläuer Straße 25  
95615 Marktreidwitz / Germany  
T: +49 9231 802-330  
F: +49 9231 802-330  
www.wall-systems.com

