

Technical Data Sheet

HECK K+A ZF 70

HECK K+A ZF:	Fiber-reinforced, ready-to-apply bonding and reinforcement compound for HECK MultiTherm insulation systems										
Properties:	<ul style="list-style-type: none"> – easy application – can be applied by hand or using a feed system – contains lightweight aggregates – fine-grained – impact resistance: > 15 Joule at a minimum layer thickness of 3 mm – color: light grey 										
Areas of Application:	<p>For exterior and interior use; also for wall base application</p> <p>For the adhesive bonding and reinforcement of EPS insulation boards in HECK MultiTherm insulation systems, and for the leveling/filling of suitable substrates, e.g. organic bonded finishing coats.</p> <p>Also suitable for placing corner and diagonal reinforcements.</p> <p>The responsibility for any usage outside these areas of application lies solely with the user.</p>										
Composition:	Binder: polymer dispersion										
Technical Data:	<table border="1"> <tr> <td>Thermal conductivity value λ_R</td> <td>0.70 W/(m·K)</td> </tr> <tr> <td>Resistance to water vapor permeability μ:</td> <td>approx. 400</td> </tr> <tr> <td>water permeability w:</td> <td>< 0,1 kg/(m²h^{0,5}) / W3 low</td> </tr> <tr> <td>Equivalent thickness s_d (m):</td> <td>< 0,5 m / V2 medium</td> </tr> <tr> <td>Fire behavior:</td> <td>DIN EN 13501 B2-s2, d0 DIN 4102; B1</td> </tr> </table>	Thermal conductivity value λ_R	0.70 W/(m·K)	Resistance to water vapor permeability μ :	approx. 400	water permeability w:	< 0,1 kg/(m ² h ^{0,5}) / W3 low	Equivalent thickness s_d (m):	< 0,5 m / V2 medium	Fire behavior:	DIN EN 13501 B2-s2, d0 DIN 4102; B1
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Coverage:	<p>Adhesive bonding: spot bonding: 1.7 kg/m², ribbon and dab method: 3.3 kg/m² construction element method: 5 kg/m², application to entire surface: 6.7 kg/m²</p> <p>Reinforcement: approx. 1.1 kg/m²/mm of layer thickness; max application thickness 4 mm</p>										
Substrate/Preparation of the Substrate:	<p>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 (DIN 18350). Cleaning is recommended. Always remove brittle or non-adhering render or loosely-adhering old paint as well as algae. Before applying the adhesive/render, level hollow joints, flaws in the masonry and larger indentations and trowel flush with the surface; during the setting process, comb scratch surface and allow to cure. Pre-treat superficially sanding, chalking, highly absorbent, organic bonded substrates once with Rajasil TG W.</p> <p>As reinforcement on insulation boards: Insulation boards (dry) must be installed evenly; 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.</p> <p>As renovation compound: The substrate has to be level, structurally sound, clean, dry and free of grease and dust. Cleaning is recommended. Always remove brittle or non-adhering render or loosely-adhering old paint as well as algae. Pre-treat superficially sanding, chalking, highly absorbent, mineral bonded substrates once with Rajasil TG W.</p>										
Application and Substrate Temperature:	<p>+ 5 °C minimum during day and night</p> <p>When using HECK TBS (drying accelerator): temperature of at least + 1 °C, humidity of max. 95% during the entire curing / film formation process.</p>										
Application:	<p>Adhesive bonding: With uncoated MW insulation boards, apply a thin layer of the bonding mortar using a lot of pressure first. Then, apply the bonding mortar to the back of the insulation board using a serrated float (10 mm), trowel or adhesive applicator gun; for partial or entire-surface application, spray-apply onto masonry. For adhesive bonding at ceilings: test beforehand whether additional measures, such as mechanical fastening or supporting during the curing phase, are necessary.</p> <p>Reinforcement: Application thickness: 2-4 mm Stir up compound briefly, and apply to insulation boards in required layer thickness using a stainlesssteel float. Then embed HECK AGG FINE into the upper third (10 cm mesh overlap min.); apply some additional mortar if required. For the subsequent application of thin-layer finishing coats, level surface with stainless-steel float.</p>										

Application:	<p>Prior to application of a finishing coat, allow a minimum of 1 day per mm of layer thickness to pass, depending on weather conditions. In cool/humid weather conditions, with e.g. air moisture, curing times are prolonged. In such cases, protect facades from rain by e.g. covering with tarpaulins.</p> <p>Do not use the actual reinforcement layer for the leveling of the substrate.</p> <p>Mixing in HECK TBS (drying accelerator) Add the content of the bag (0.5 kg) to the HECK K+A ZF 70 package. In doing so, it must be ensured that the powder is distributed evenly. Adding the drying accelerator on the top side allows better and faster mixing. Use a suitable mixer, e.g. a motorised mixer, to mix the products without producing any clots in order to achieve thorough mixing.</p> <p>Subsequent addition of water is usually not required. If necessary, add only a very small amount of water. The material must be processed immediately after the drying accelerator has been added.</p>
After Treatment:	<p>Protect freshly-applied compound from premature dehydration (sun, wind, high temperatures), frost and rain until it is fully cured. High relative humidity (approx. 90 % and more) will result in a delayed setting process. During this time, protect render effectively from moisture and rain.</p>
Surface Coating:	<p>With HECK SHP or HECK KHP</p>
Notes:	<ul style="list-style-type: none"> – Please observe HECK application guidelines – Clean tools with water immediately after use
Safety Instructions:	<p>If product gets on skin, wash off with water and soap (never use solvents). If product gets in eyes, rinse with plenty of water immediately and seek medical attention. Provide sufficient ventilation; do not smoke, eat or drink while working. If product is swallowed, seek medical attention. Wear suitable protective gloves. Keep product out of the reach of children. For further information see Safety Data Sheet.</p>
Storage:	<p>Store in a cool and frost-free place; shelf-life in original container approx. 9 months. Once container is opened, keep tightly closed and use up soon.</p>
Quality Control:	<p>Internal and external control of production</p>



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