

# 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:**
- 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 up to 70 Joule (Category I) depending on layer construction
  - color: light grey

**Areas of Application:**

For exterior and interior use; also for wall base application

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.

Also suitable for placing corner and diagonal reinforcements.

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

**Composition:** Binder: polymer dispersion

**Technical Data:**

Water vapour transmission	V2 medium
Water absorption	W3 low
Water vapour diffusion resistance factor $\mu$ :	< 100
Reaction to fire when used on mineral surfaces in a layer thickness up to 4 mm	B-s2, d0

**Consumption:**

Working Method:	Consumption:
Reinforcement	Approx. 1.4 kg/m <sup>2</sup> per mm layer thickness.
Point bonding	Approx. 1.9 kg/m <sup>2</sup>
Bead-point method	Approx. 3.6 kg/m <sup>2</sup>
Component method	Approx. 5.0 kg/m <sup>2</sup>
Full-surface bonding	Approx. 6.7 kg/m <sup>2</sup>

The consumption information provided refers to average values determined from practice. Depending on the layer thickness and substrate, slightly higher or lower consumption is possible.

**Substrate/Preparation of the Substrate:**

**Bonding the insulation boards and applying filler on mineral surfaces:**  
The substrate must be level, have sufficient load-bearing capacity, be clean, dry, free of grease and dust (DIN 18 350).

Cleaning is recommended. Crumbly or hollow plaster or any remnants of paint or plaster with insufficient load-bearing capacity as well as algae must generally be removed. Level imperfections in the brickwork and larger recesses, trowel them so that the substrate is flush again, comb the surface during the initial curing process and allow it to harden before the adhesive is actually applied. Pretreat substrates with sandy, chalky, highly absorptive, organically bound surfaces with Rajasil TG W (Rajasil Tiefengrund W, Rajasil deep-penetrating primer W).

**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.

**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.

**Application and Substrate Temperature:**

+ 5 °C minimum during day and night

When using HECK TBS (drying accelerator): temperature of at least + 1 °C, humidity of max. 95% during the entire curing / film formation process.

<b>Application:</b>	<p><b>Adhesion:</b> The adhesive and reinforcement filler must be applied to the rear side of the insulation board using a notched trowel (10 mm) and/or trowel or using the glue gun. In the case of the partial or full-surface bonding procedure, it must be sprayed onto the prepared brickwork. (In the case of uncoated mineral wool</p>
<b>Application:</b>	<p>insulation boards, a thin layer of the adhesive and reinforcement filler must be applied under pressure beforehand (pressure filling)).</p> <p><b>Reinforcement:</b> Application thickness: 2-4 mm Stir up adhesive and Reinforcement Filler briefly, and apply to insulation boards in required layer thickness using a stainlesssteel float.</p> <p>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. 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><b>Mixing in HECK TBS (drying accelerator)</b> 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>
<b>After Treatment:</b>	<p>Protect freshly-applied adhesive and Reinforcement Filler 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>
<b>Surface Coating:</b>	<p>With HECK SHP or HECK KHP</p>
<b>Cleaning of Tools:</b>	<p>Clean tools with water immediately after use</p>
<b>Notes:</b>	<p>Please observe HECK application guidelines</p>
<b>Safety Instructions:</b>	<p>Avoid contact with eyes and skin. Protect eyes and skin. If product gets on skin, wash off immediately with soap and water. If product gets in eyes, thoroughly rinse with plenty of water for at least 15 minutes and seek medical advice. If product is swallowed, seek medical advice immediately. Wear suitable protective gloves. 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 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>
<b>Quality Control:</b>	<p>Internal and external control of production</p>



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