

Technical Data Sheet

HECK K+A LIGHT 085

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Dry factory-mixed mortar with PWS technology; mineral-based adhesive and reinforcement compound; LW, CS III, W 2 in accordance with DIN EN 998-1

Properties:

- can be applied manually or using a rendering machine or feed system
- water-vapor-permeable and water-repellent
- fiber-reinforced
- suitable for felt-float finish
- color: white
- high-yield
- ultra-lightweight

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 External Insulation Finishing Systems:

- as bonding mortar for insulation boards, using the ribbon and dab method (mortar application to $\geq 40\%$ of surface), void-free application to entire surface, or the construction element method (mortar application to $\geq 60\%$ of surface)
- as reinforcement compound (3 - 10 mm) with embedment of HECK AGG FINE (compulsory on EIF systems and similar substrates)

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

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; washed quartz grit; lightweight aggregates; admixtures for the improvement of workability, adhesion, and water-repelling properties; alkali-stable glass fibers

Technical Data:

Maximum grain size	1.0 mm
Thermal conductivity (tabular value):	0.44 W/(m·K)
Resistance to water vapor permeability μ :	20
Water absorption in accordance with ETAG 004:	W < 0.5
Water absorption coefficient in accordance with EN 1015-18:2002:	W2; c < 0.2 kg/(m ² min ^{0.5})

Coverage:

Adhesive Bonding:

Spot bonding (rail system):	approx. 1.5 kg/m ²
Ribbon and dab method:	approx. 3 kg/m ²
Construction element method (partial area application)*:	approx. 4.5 kg/m ²
void-free application to entire surface*:	approx. 6 kg/m ²

*Application of adhesive onto masonry

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

Reinforcement mortar:

approx. 0.85 kg of dry mortar / m² per mm of layer thickness

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

Substrate/Preparation of the Substrate:

Make sure work area is well-covered before starting.

Bonding of insulation boards on mineral substrates:

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 paint residue 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, 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.

Substrate/Preparation of the Substrate:	<p>As reinforcement on insulation boards:</p> <p>Insulation boards must be installed even; 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>Do not use the actual reinforcement layer for leveling the substrate.</p>
Application and Substrate Temperature:	+ 5 °C minimum; lower temperatures during the curing phase can have a sustained negative effect on product properties.
Application:	<p>With high environmental temperatures (and/or strong wind), additional measures are necessary to prevent premature loss of mixing water.</p> <p>Mix the contents of a bag and the required amount of tap water in a clean mortar bucket to a lumpfree consistency using a power stirrer; allow mix to sit for approx. 10 minutes; stir up thoroughly again before application and use up within 1 hour approximately.</p> <p>Adhesive bonding:</p> <p>With uncoated mineral wool insulation boards: apply a thin layer of bonding mortar using a lot of pressure first. Then, using a serrated trowel (10 mm), a trowel, or an adhesive applicator gun, apply the bonding mortar to the back of the insulation board; for partial-area application and void-free application, spray adhesive onto masonry.</p> <p>For ceiling application: please test beforehand whether additional measures, such as mechanical fastening or supporting during the curing phase, are necessary.</p> <p>Reinforcement:</p> <p>Apply mortar in required thickness to (dry) insulation boards using a stainless-steel trowel. Then embed HECK AGG into the upper third (allow mesh to overlap by at least 10 cm); touch up if required.</p> <p>For the subsequent application of thin-layer finishing coats, level surface with stainless-steel trowel. For a subsequent felt-float finish, leave the substrate as it is. For thick-layer decorative renders, roughen up surface without exposing the mesh. Perform surface roughening only after sinter skin has formed.</p>
After Treatment:	Protect freshly-applied mortar from premature dehydration (sun, wind, high temperatures), frost and rain. Protect from rear moisture intrusion when using as bonding mortar.
Surface Coating:	<p>With mineral or organic HECK finishing coats.</p> <p>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.</p> <p>At wall bases:</p> <ul style="list-style-type: none"> – 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 (HECK UG). <p>Protect render system in contact with the ground from rear moisture intrusion. For this, use Rajasil DB or Rajasil DS FLEX.</p>
Notes:	<p>Please consult technical guideline “Application HECK” and/or complementary Data Sheets of relevant products.</p> <p>When dressing EPS boards with a grooved surface, apply two mortar layers.</p> <p>Clean tools with water immediately after use.</p> <p>When installing EIF systems observe applicable technical approvals. They are available upon request.</p>
Safety Instructions:	<p>The product contains lime and cement; fresh mortar thus reacts alkaline.</p> <p>Avoid contact with skin; if product gets on skin, wash off immediately. If product gets in eyes, thoroughly flush with water immediately and seek medical attention.</p> <p>Keep product out of the reach of children.</p> <p>If product is swallowed, seek medical attention immediately.</p> <p>Wear suitable protective gloves during work.</p> <p>For further information see Safety Data Sheet.</p>
Storage:	Store in a dry place; shelf life approx. 9 months
Quality Control:	Constant monitoring of production through laboratory analyses; internal and external production process quality control.



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