

## Technical Data Sheet

# HECK SIP

(Silicate Render)

### HECK SIP:

Sodium silicate based decorative render

HECK SIP is supplied ready-to-use out of the bucket; it is available as scraped finish (KC) or float finish (R) render:

HECK SIP KC1	max. grain size approx. 1 mm
HECK SIP KC2	max. grain size approx. 2 mm
HECK SIP KC3	max. grain size approx. 3 mm
HECK SIP R2	max. grain size approx. 2 mm
HECK SIP R3	max. grain size approx. 3 mm

### Properties:

easy to apply; adhesion to substrate by silification, non-film-building; highly water vapor and carbon dioxide permeable; water repellent

Colors: white, or according to the Color Sensation color fan deck; for other colors please ask

### Areas of Application:

For exterior and interior use; also suitable for use on HECK insulation systems EPS / MW / L-MW. The responsibility for any usage outside these areas of application lies solely with the user.

### Composition:

Stabilised sodium silicate, marble grit, inorganic pigments, workability-improving admixtures

### Technical Data:

water vapor permeability resistance coefficient $\mu$ :	approx. 35
w value:	$\leq 0.2 \text{ kg}/(\text{m}^2\text{h}^{0.5})$

### Coverage:

Product variant:	Coverage:
HECK SIP KC1	approx. 2.7 kg/m <sup>2</sup>
HECK SIP KC2	approx. 3.6 kg/m <sup>2</sup>
HECK SIP KC3	approx. 4.3 kg/m <sup>2</sup>
HECK SIP R2	approx. 3.8 kg/m <sup>2</sup>
HECK SIP R3	approx. 4.5 kg/m <sup>2</sup>

These are averaged values based on practical experience. Depending on layer thickness and substrate, coverage may differ slightly.

### Application and Substrate Temperature:

+ 8 to 25 °C minimum; lower or higher temperatures during the curing phase can have a sustained negative effect on product properties.

### Substrate:

Mineral renders CS II-IV in accordance with DIN 998-1 (P 1-IV in accordance with DIN V 18 550), concrete, fiber cement, plaster or plasterboard. We recommend using undercoats made by HECK Wall Systems GmbH, as their technical specifications have been specially designed towards coating with HECK SIP.

### Preparatory Work:

Sodium silicate has high alkaline properties when fresh; glass, metal, ceramic and other surfaces have thus to be covered thoroughly before starting to work.

The substrate must be free of cracks, even, clean, free of dust and grease, solid and dry (look for any condensation). Do not rub down undercoats with felt float, just trowel up evenly; remove mortar ridges.

Mineral undercoats must be thoroughly dried (curing time according to latest Technical Data Sheet). Treat newly rendered areas, e. g. during renovation work on historical buildings, with a fluate beforehand, wash thoroughly and allow to dry. As a general rule, prime using HECK UG; the render can then be applied the following day.

Make sure to test the absorbency of the substrate in time. If the KC variant is applied in favorable weather conditions on evenly and very low-absorbent, water-repellent substrates, such as HECK K+A, it may be possible to omit priming.

Priming with HECK UG is necessary with:

- the "R" product variant (use colored primer to prevent shining through of the undercoat through grooves)
- gypsum-containing or very smooth substrates, such as fiber cement board
- absorbent substrates, such as undercoats levelled/roughened with plaster plane.

<b>Application:</b>	<p>Stir up content well; if necessary, dilute with max. 2 % Rajasil FIXATIV and mix thoroughly. Do not dilute with water.</p> <p>Trowel on product in grain-size layer thickness using a stainless-steel trowel and use a plastic or steel trowel for texturing; for the float finish "R" variant, use a plastic trowel. Product can be applied by machine. Work wet-in-wet in order to avoid visible joints. With larger surfaces, place a man on each scaffolding level.</p> <p>During cooler weather conditions or permanent or recurring high relative humidity (above 95 %), the render cannot set. Exposure to moisture can also re-liquefy partially cured render.</p>
<b>Subsequent Surface Coating::</b>	<p>Suitable are highly water vapor permeable, water-repellent coating systems, such as Rajasil SIF.</p>
<b>After Treatment:</b>	<p>Protect freshly-applied render, or render that has not yet hardened, from premature dehydration (sun, wind, high temperatures).</p> <p>Application method and application conditions, such as substrate absorbency, weather conditions or environmental reflections, can result in color discrepancies with the color fan deck or with the sample submitted. We recommend paint color tests at the application site as we will not be able to accept complaints after the product has been applied.</p> <p>Alterations in color can be compensated by coating the superficially dry render with Rajasil SIF (roller or brush application). We recommend to generally include an equalizing paint coating in invitations to tender as well as in quotations. In agreement with the client, on-site application can then be made dependent on whether or not the desired aesthetic effect necessitates such a coating. (Information Sheet: Equalizing Paints on Decorative Renders)</p> <p>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, especially when no surface coating is performed. If possible, avoid follow-up deliveries. When placing a follow-up order, please make sure to provide: the date of your initial order, the batch number, as well as the shipping note/invoice number. Always mix newly supplied material and possible leftovers thoroughly.</p> <p>Variations in color over the course of time due to weather factors, e.g. UV impact, and environmental factors, e.g. atmospheric particles, are not covered by warranty. Technical functionality remains unaffected.</p> <p>Under unfavorable conditions, the possibility of the formation of micro-organisms, such as algae, cannot be ruled out; this does not constitute a reason for complaint.</p>
<b>Cleaning of Tools:</b>	<p>Immediately after use, with water.</p>
<b>Safety Instructions:</b>	<p>HECK SIP contains sodium silicate and thus reacts alkaline.</p> <p>Avoid contact with eyes and skin. Protect eyes and skin. If product gets on skin, wash off with water and soap immediately. If product gets in eyes, flush with large amounts of water for at least 15 minutes and seek medical attention. If product is swallowed, seek medical attention.</p> <p>Wear suitable protective gloves.</p> <p>Keep product out of the reach of children.</p> <p>For further information, refer to Safety Data Sheet.</p>
<b>Storage:</b>	<p>Store in a cool place that is free from frost. After opening, keep container tightly closed.</p> <p>Shelf-life in original container: approx. 6 months.</p>
<b>Quality Control:</b>	<p>Constant monitoring of production process through laboratory analyses.</p>



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