

Technical Data Sheet

HECK SHP 4S

(silicone resin render 4S)

HECK SHP 4S:

HECK SHP 4S (silicone resin render 4S) is a decorative render in accordance with DIN 15 824, of the scraped-finish render texture type and can be used all year long at day and night temperatures above +1° C, even at a high humidity of up to 95 %.

HECK SHP 4S (silicone resin render 4S) KC 1,5	max. grain size approx. 1,5 mm
HECK SHP 4S (silicone resin render 4S) KC 2	max. grain size approx. 2 mm
HECK SHP 4S (silicone resin render 4S) KC 3	max. grain size approx. 3 mm

Properties:

- can be processed at +1 °C to 30 °C and high relative air humidity up to 95 %
- early rainproof after 16 – 24 hours (test conditions 7°C / 90 % relative air humidity in ambient air)
- high water vapour diffusion
- weatherproof and driving-rain-tight
- homogeneous structure
- very highly water-repellent
- optimal protection of the coating against algal and fungal attack
- suitable for a base

Areas of Applications:

For exterior use and specifically on HECK thermal insulation systems as well as new and old renders. Not suitable for horizontal or inclined surfaces that will be subject to weathering. The responsibility for any usage outside these areas of application lies solely with the user.

Composition:

Polymer dispersion, silane-reinforced, mineral fillers, additives, pigments

Technical Data:

Density:	approx. 1.65 to 1.85 g/cm ³
s _d value:	V1 high to V2 medium
w-Wert:	W3 low
Fire behaviour when used in HECK thermal insulation systems	A – s1, d0
Fire behaviour when used on mineral substrates in a layer depth up to 3 mm	B – s2, d0

Colours:

White, or according to the HECK Color Sensation colour fan deck; for other colours, please ask.

Coverage:

HECK SHP 4S (silicone resin render 4S) KC 1,5	approx. 2.0–2.4 kg/m ²
HECK SHP 4S (silicone resin render 4S) KC 2	approx. 2.8–3.2 kg/m ²
HECK SHP 4S (silicone resin render 4S) KC 3	approx. 3.8–4.2 kg/m ²

These are average values based on practical experience. Coverage may differ depending on the substrate.

Application and Substrate Temperature:

+ 1 °C minimum and relative air humidity < 95 %.

Temperatures below the minimum temperature and extremely high air humidity, condensation, mist and rain during the curing phase can have a lasting adverse effect on product properties. In cool weather conditions or in the event of permanent or recurring high relative air humidity (above 95 %), longer drying and curing times must be taken into consideration, and the surfaces must be protected against rain if necessary.

Substrate/ Substrate Preparation:

One undercoat of Rajasil TG W (deep primer) is necessary on highly absorptive and special surfaces, (e.g. fibre cement and concrete). Apply one undercoat of HECK UG (universal primer). The render can be applied the next day. On poorly absorbent substrates, e. g. HECK K + A ZF, the HECK UG (universal primer) may be omitted. All base coats must be completely cured and dry. The specified drying period according to the valid technical data sheet must be adhered to.

Application:

Always stir the container thoroughly with the motorised whisk. Add water to achieve the required application consistency if necessary, with maximum 500 ml water/container. Apply using a stainless-steel trowel, smooth at grain size and rub evenly in circular motions using a stainless-steel/plastic trowel. To avoid visible joints on a surface, ensure quick wet-in-wet processing and a sufficient number of workers.

Coating:	<p><u>Primer:</u> HECK Unicryl, HECK REFLECTA or Rasasil SHF (silicone resin paint), each diluted with max. 10 % water</p> <p><u>Top coat:</u> HECK Unicryl, HECK REFLECTA or Rasasil SHF (silicone resin paint), adjusted to the primer coat undiluted or diluted up to max. 5 % with water</p> <p><u>Levelling coat:</u> HECK Unicryl or Rasasil SHF (silicone resin paint), applied in one step</p> <p>In unfavourable weather conditions, one may have to wait up to several days for an opportunity to finalise the HECK SHP 4S (silicone resin render 4S).</p>
Cleaning of Tools:	Immediately after use, with water
Notes:	<p>Before processing, make sure the substrate is dry and free of frost. Moist or incompletely cured substrates can result in later damage. In winter, make sure to observe any extra-long setting times of newly rendered undercoats. Newly applied renders must be checked using an indicator (phenolphthalein solution). Do not exceed $\text{pH} \leq 8.5$.</p> <p>Physical setting depends greatly on temperature, air currents, and air humidity. Because these factors cannot be anticipated at the site, no exact prediction can be made as to complete curing. During prolonged relative air humidity above 95 %, the render cannot set. In the case of air humidity over 90 %, the drying and curing process can take several days. A seemingly firm surface after a few hours, does not show the curing stage.</p> <p>During the curing and drying phase, exposure to frost must be ruled out. A possible protective measure is e.g. to cover with a tarpaulin; good air circulation must be ensured.</p> <p>Colour differences to standard material. HECK SHP 4S (silicone resin render 4S) and standard quality HECK SHP (silicone resin render) may not be mixed together or applied to the same contiguous surface.</p> <p>Also make sure to observe the bulletin "Putzen bei hohen und niedrigen Temperaturen" ["Rendering at high and low temperatures"] by ISK (Internationaler Sachverständigenkreis Ausbau & Fassade D-A-CH).</p> <p>The moisture protection should be held approx. 5 cm above the ground, in the area in contact with the soil.</p> <p>Application method and application conditions, such as substrate absorbency, weather conditions or environmental reflections, can result in colour divergences from the colour fan deck or from the submitted sample. We recommend paint colour tests at the application site as we will not be able to accept complaints after the product has been applied.</p> <p>Due to the use of mineral raw materials, follow-up deliveries may vary in colour. 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.</p> <p>Variations in colour and surface structure over the course of time due to weathering factors and environmental impact, e.g. atmospheric particles, are not covered by warranty. Further notes on these factors are given in BFS Bulletin No. 26 ("Farbveränderungen von Beschichtungen im Außenbereich" ["Colour changes of outdoor coats"], 2007). Technical functionality remains unaffected.</p> <p>Water condensation that occurs before and during application or while drying can cause patches to develop. Only work in suitable weather conditions.</p> <p>In nature, micro-organisms such as algae are an existentially important component of our changing ecosystem. Alongside environmental conditions, their growth primarily depends on whether moisture is present for a sufficient period of time. In the cold season, exterior walls with good heat insulation properties can lead to relatively low surface temperatures and thus also to condensation, which can facilitate algae growth. Slowing down algae growth only works by strongly reducing or completely removing growth conditions. An inspection of the overall situation on site (e.g. roof projections, detailed designs, regional pollution, environment, climate, wind, cardinal direction) is indispensable for preventive solution approaches. Algae on façade surfaces is predominantly an aesthetic problem, and not a technical defect. An initial algae and fungal infestation can be removed in the short term with suitable cleaning and disinfection measures, and cleaning intervals must be planned if required.</p>
Safety Instructions:	<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. Wear suitable protective gloves. Keep product out of reach of children.</p> <p>See also the Material Safety Data Sheet for more information.</p>
Storage:	Store in a cool place that is free from frost. After opening, keep container tightly closed. Can be stored in original container for approx. 12 months. In low temperatures, the material must be stored temporarily at approx. 20 °C before processing.
Quality Control:	Constant monitoring of production through laboratory analyses
GIS CODE:	M-SF01 silicone resin paints, water-based
Packaging Size:	25 kg



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HECK Wall Systems GmbH
Thöläuer Straße 25
95615 Marktredwitz / Germany
T: +49 9231 802-0
F: +49 9231 802-330
www.wall-systems.com