

## step

Produktdatenblatt Nr. 9220 - R - 18

Issue: August 2022

**KRAITEC® step** is a rubber granulate slab specially designed for protection of waterproofing membranes on flat roofs (e.g. walkways for roof maintenance personnel), balconies and terraces. **KRAITEC® step** it is also used as a supporting underlay under systems installed on roofs (e.g. solar power units, antennas etc.).

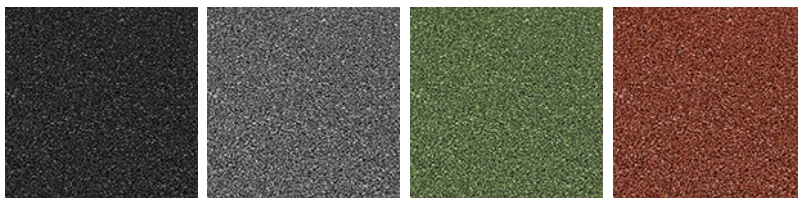
## Material

Material:

Polyurethane-bonded recycled Rubbergranulate.(typical rubber smell possible)

## Product design

Colours:



black, grey, green, red

Surface: smooth with open pores, chamfered edges

Lower side: smooth with open pores, with drainage channels

## Dimensions / Tolerances / Weight

Length x Width x Thickness: 500 mm x 500 mm, 30 mm

Tolerances: length/width  $\pm 1.5$  %, thickness  $\pm 2$  mm

Weight slab: approx. 5.2kg

Area weight: approx. 20.8 kg / m<sup>2</sup>

The product data sheet is not subject to any change service! All information is without guarantee.

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## Product Testing

Fire resistance:	Efl (B2) (EN 13501-1) Broof(t1) (DIN EN 13501-5)
Chemical resistance:	conditionally resistant to acids and bases
Environmental resistance:	rot-proof and water-resistant
Compression under traffic load:	10 % at approx. 18 t/m <sup>2</sup> 20 % at approx. 38 t/m <sup>2</sup> (test method based on DIN EN ISO 3386-2)
Water permeability:	given by open pores
Water drainage capacity:	at hydraulic gradient $i = 0,015$ : 0.037 L/(m. s) in direction of drainage channels 0.022 L/(m. s) in transverse direction (test method based on DIN EN ISO 12958)  at hydraulic gradient $i = 0,05$ : 0.097 L/(m. s) in direction of drainage channels 0.070 L/(m. s) in transverse direction (test method based on DIN EN ISO 12958)
Frost-resistant:	yes
Coefficient of thermal expansion:	$\alpha_m \text{ ca. } 10 \times 10^{-5}/^{\circ}\text{C}$
Salt water resistance:	Fully resistant (DIN EN ISO 175, DIN EN ISO 3386-2)
UV-Resistance:	Fully resistant (DIN EN ISO 1297, DIN EN ISO 3386-2) (Colour variations are possible due to environmental influences.)
Anti-slip properties:	C (DIN 5109, wet loaded Barefoot Areas ) R10 (For work rooms and work areas with danger of slipping according to DIN 51130: 2014-02)
Chlorine resistance:	Fully resistant (DIN EN ISO 175, DIN EN ISO 3386-2)
Sound Insulation:	The readings have been raised with the full specified layer structure in a laboratory measurement.
Impact sound insulation:	

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The readings have been raised with the full specified layer structure in a laboratory measurement. (In accordance with ISO 10140)

Warm roof		
PIR-insulation 140mm	Waterproofing: Bituminous roofing membranes	Waterproofing: PVC roofing membranes
Impact sound insulation improvement	$\Delta L_w = 27 \text{ dB}$	$\Delta L_w = 32 \text{ dB}$
Layer structure (top to bottom)	<ul style="list-style-type: none"> <li>- KRAITEC® step</li> <li>- 2nd waterproofing layer: PYE PV 200 S 5, slate-coated</li> <li>- 1st waterproofing layer: G 200 S 4, talcum-coated</li> <li>- Insulation: PIR FA WLS 024 (140 mm)</li> <li>- Bitumen vapour barrier: V 60 S 4 + Al</li> </ul>	<ul style="list-style-type: none"> <li>- KRAITEC® step plus</li> <li>- Waterproofing: PVC 1,5mm</li> <li>- Insulation: PIR FA WLS 024 (140 mm)</li> <li>- Bitumen vapour barrier: V 60 S 4 + Al AL</li> </ul>

Water permeability:

Water permeability:  
(perpendicular to the plane)

	Coefficient of water permeability $k_v$ , const. at 20°C	Permittivity At 20°C
2 kPa	0,0039 m/s	0,14 1/s

(DIN 60500-4)

## Installation

Install in accordance with the **KRAITEC® step** installation instructions.

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## Other

Other: plastic connector pins included, receiving holes drilled on two sides (The Standard Colour can be drilled on four sides on request) Compatibility: Due to the large number of commercially available waterproofing membranes with different formulations, the compatibility (e.g. with plasticizers or blocking) must be approved by the manufacturer of the waterproofing membrane.

Disclaimer: With our information we desire to advise you to the best of our knowledge and belief based on our trials and experiences. However, KRAIBURG Relastec GmbH & Co. KG cannot accept a warranty for the processing result in the specific case, due to the variety of use possibilities, and the storage, processing, and construction site conditions for our KRAITEC® products that are beyond our control. The customer must execute his own tests. Our technical customer service organization is available to you.