Technical Data Sheet

Version 04/2022

2K-Rapidschaum

Product Description

Two-component polyurethane foam system from the double cartridge. Free from CFC, HCFC and HFC.

Product Properties

- fire behavior according to DIN 4102-1: class B2
- safe and fast curing, thus rapid reworking possible
- very fast and even hardening
- can be cut after a few minutes*
- propellant-free
- dimensionally stable
- no dwell pressure after curing
- heat insulating
- high strength
- significantly higher strength compared to 1K foam
- safe in the cured condition
- pressure and stress-free curing
- resistant to aging - but not to UV radiation
- frost resistant
- high bonding strength on most building substrates such as masonry, concrete and wood, on insulating materials, metals and many plastics
- excellent adhesion to wood, fiber cement, aerated concrete, concrete, masonry, plaster, XPS and rigid PVC
- easy to rework e.g. cutting, sawing, as well as plastering, painting and papering on top

* applies at 20 °C, at low temperatures the reaction time is delayed

Areas of Application

steps, doors, precast walls, roller shutter boxes, air conditioning and ventilation systems, shower trays, bathtubs, boat building, machine and vehicle construction, moisture-sensitive areas, areas with high strength requirements, inaccessible areas, as well as large cavities, since no moisture is needed

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Form of Delivery

Foam colour:	yellowish
Packing unit:	16 cartridges per box
Cartridge:	210 ml

Substrates

Suitable substrates:

masonry, plaster, wood, concrete, bricks, clinker, plasterboards, fiberboards, various plastics, various metals, ceramics, tiles, stone

Unsuitable substrates:

PE, PP, PTFE, oily/greasy surfaces, gypsum, tar, bitumen, silicone, corrosion-prone metals, some powder coatings, release agents

Instructions for Use

The adhesive surfaces must be clean, free from release agents and stable. Dust, grease, oil and loose parts must be removed before processing. For gypsum-based substrates, a suitable gypsum primer is recommended. Do not wetten prior to application - also avoid substrate moisture. The surfaces to be foamed should be as dry as possible. Cover adjacent areas sufficiently and put on personal protective clothing. Complete all preliminary work before foaming. Cut off cartridge cap with a knife and attach the mixing tube with extension tube. Use a 2-chamber applicator gun Side By Side to apply the foam pumping evenly, not too hastily. Apply 2K-Schaumkleber Tempo in lines. Avoid interruptions of more than 5 seconds between the individual foam points. After longer interruptions, replace the mixing tube. Cover floor with foil or paper.

The optimum cartridge temperature is 20 °C. Deformation-sensitive components must be adequately supported until complete curing of the foam. Low temperatures slow curing significantly. Substrates must have temperatures of over 0 °C during the entire curing time. The gap widths should not be less than 5 mm and not more than 25 mm.

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Technical Data

Characteristics	Standard	Value
Fire behavior	DIN 4102-1	class B2
Processing temperature cartridge min./max.		+10 to +30 °C
Processing temperature cartridge optimal		+15 to +25 °C
Processing temperature environment min./max.		+10 to +35 °C
Processing temperature environment optimal		+15 to +25 °C
Yield free-foamed (20 °C/65 % RLF)	FEICA EN 17333	approx. 4,5 liters / 210 ml cartridge
Start time		approx. 11 seconds
Setting time		approx. 60 seconds
Non-sticky		approx. 70 seconds
Cuttable		approx. 5 minutes
Resilient after (20 °C/65 % RLF)		approx. 20 minutes
Form stability (20 °C/65 % RLF)	FEICA EN 17333	± 5 %
Temperature resistance		-30 to +80 °C
Bulk density SKZ method		50 - 60 kg/m³
Compressive strength at 10 % compression	DIN 53421	50 - 70 N/cm²
Tensile strength	DIN 53430	80 - 100 kN/cm²
Shear strength		60 kN/m²
Elongation at break		approx. 9 - 11 %
Thermal conductivity	EN 12667	approx. 0,035 W/mK
Shelf life (dry, at 20 ° C); higher temperatures shorten the storage time		12 months

Safety Instructions

Wear gloves during processing as the fresh foam sticks strongly and can only be removed mechanically after hardening. Wear safety glasses. Remove fresh foam splashes with INSEBO PU-Universal-Reiniger. Hardened PU foam can only be removed mechanically.

Please refer to our safety data sheet and the product label for further information on product safety and handling.

Current safety data sheets and further information on our products can be found at www.insebo.com.

Service

Upon request, our trained sales representatives are always at your disposal.

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Disposal

For disposal instructions please refer to our safety data sheet and product label.

Additional Information

This technical data sheet advises without obligation and guarantee. The mentioned processing instructions have to be adapted to the prevailing conditions. The user is obliged to check the suitability and application by own experiments in order to avoid failures.

All given descriptions, data, ratios, weights, etc. can change without notice and do not represent contractually agreed properties of the product. Existing laws, standards and regulations are to be observed by the recipient of our products in their own responsibility.

Due to the large number of possible influences during processing and application, a guarantee of certain properties or suitability for a specific application can not be made, own tests are necessary.

The right to make technical changes is reserved.

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