

## Technical Data Sheet – LiquidElast® type V

### Product description

The LiquidElast® type V surface sealant is a waterproofing for horizontal surfaces and joints against pressing water. LiquidElast® type V bridges cracks up to 5 mm and is used for elements in contact with the soil or also as a hidden sealing behind cladding. LiquidElast® type V can be applied by pouring.

### Product features

- ::: 1-component sealant
- ::: Liquid consistency
- ::: Bridges cracks up to 5 mm
- ::: Weather and UV resistant
- ::: Processing from 0°C on ice-free surfaces
- ::: Solvent-free
- ::: Can be combined with other Elast products

### Areas of application

- ::: Technically approved for horizontal surfaces according to DIN 18195
- ::: For waterproofing of buildings against pressing and non-pressing water
- ::: Compound sealant under floor coverings
- ::: Repair of sealed surfaces (e.g. balcony and roof)
- ::: Permanently elastic sealant for floor joints

### Product data and delivery form

- 5004146 LiquidElast® type V, 1 kg bag
- 5004144 LiquidElast® type V, 7 kg bag



### Substrate preparation

Substrates must be firm and load bearing, as well as free of dust, grease, oils and other separating materials. The substrate may be humid but not wet with a visible film. Suitable substrates are concrete and other mineral building materials as well as plasterboard, wood, PVC, ceramic etc. In a case of doubt we recommend a preliminary test.

### Processing as a surface sealant

LiquidElast® type V is poured directly onto the substrate and spread evenly, approx. 1 mm thick, with a toothed scraper. Primer is not necessary for suitable substrates. For surface restoration of concrete substrates and old fixed sanded bituminous sheets, we recommend the pre-treatment of the substrate with the LiquidElast® primer to seal the pores and as a primer.

In the case of accumulated seepage water and pressing water, it is necessary to apply a second coating layer. This can be done after a stable skin has been formed (approx. 6 to 12 hours). In case of outstanding stress (movement in the base substrate, pressing water or weak mechanical stress) as well as in corners the additional use of a reinforcing mesh is recommended.

When renovating sanded bitumen sheets and surfaces with very high exposure to UV light, a second thin layer of LiquidElast® type V should be applied. This layer must be covered completely e.g. with slate split.

### Processing as a joint sealing

When using as a joint sealant (by pouring into floor joints), ensure that the joint design is sufficiently wide ( $\geq 5$  mm) and sufficiently deep ( $\geq 10$  mm and  $\geq \frac{1}{2}$ width). A three-sided adhesion to the joint base must be prevented by inserting a suitable joint filling strip or a polyethylene backfilling cord. It is recommended to mask the edges of the joint with adhesive tape. The sealing compound must be filled into the joint without voids and bubbles. Smoothing is not usually necessary. Should it however be necessary, pure liquid soap / surfactant (not diluted with water) can be used as a smoothing agent. The masking tape should be removed immediately after casting (smoothing). The maximum sealant thickness in one process should not exceed 5 cm. For deeper joints, adding a curing agent / accelerator paste is recommended.

### Post-treatment

Until a stable skin has been formed, the LiquidElast® type V has to be protected from water / moisture. After sealant curing it might be necessary to protect the surface from mechanical damaging. LiquidElast® type V can be painted over.

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### Notes

LiquidElast® type V is moisture-hardening, which means high air temperatures and high moisture in the ambient air accelerate the hardening process (thus reducing the open time), whilst low temperatures and moisture slow it down.

In this data sheet, the processing information describe only the most common applications. For repairs and other applications, we recommend a preliminary test if there is any doubt. Please don't hesitate to ask our technical department for more information.

Bituminous substrates can result in discoloration of the LiquidElast®. On the other properties this has no effect. Cured residues can be removed mechanically with a scraper or a spatula.

### Storage

Can be stored in a cool, dry place > 12 months

### Packaging

7 kg/carton (60 cartons/pallet)

### Technical properties

Color	grey
Consistency	liquid (low viscosity)
Processing form	1-component (reacts with humidity to make a soft-elastic, rubber-like material)
Specific density	approx. 1.5 g/cm <sup>3</sup>
Hardness	approx. 30 (Shore A type) measured after 4 weeks **
bridges cracks	up to 5 mm in form of a membrane
max. possible deformation	20 % in joints
Elongation at break	> 400 %
Temperature resistance	-40°C to +80°C
Volume change	< 1 %
Open time	approx. 30 min **
Curing	approx. 3 mm/24 h **
Processing temperature	0°C to 35°C Element and material temperature
Stability	self-spreading
Fire behaviour	Category E (DIN EN 13501-1)
Consumption	- Ca. 3,0 kg/m <sup>2</sup> (2 x 1mm coating layer) - Ca. 0,5 kg/ m <sup>2</sup> spot bonding - Ca. 1,5 kg/l as joint sealant

\*\* at 23°C, 50% rel. humidity

The information in this data sheet has been provided with care based on our experience and the respective known state of science and technology, but is not binding. They must be adapted to the respective building object, intended use and the particular local loads. Given this, we ask for understanding that we limit our liability for the information provided in this data sheet and do not assume any liability in case of intent, gross negligence or breach of the instructions. In any case, the accepted rules of technology must be complied with.

Issue 09/19 – This data sheet has been technically revised. Previous issues are not valid, if a new issue has been technically revised, this issue loses its validity. Please make sure that you are in possession of the latest issue.