

## Technical Data Sheet – LiquidElast® Type S

### Product description

The LiquidElast® type S surface sealant is a waterproofing for component versus pressing water. LiquidElast® type S bridges cracks up to 5 mm and is used for elements in contact with the soil or also as a covered sealant behind facing elements. LiquidElast® type S is spreadable.

### Product properties

- ::: 1-component sealant based on a modified polymer
- ::: Spreadable consistency
- ::: Crack bridging up to 5mm
- ::: Weather-proof and resistant versus UV-light
- ::: Solvent-free
- ::: Can be combined with other Elast products

### Areas of application

- ::: For vertical and horizontal surfaces according to DIN 18195 with general technical approval
- ::: Approved as construction sealant versus non pressing and pressing water
- ::: As adhesives e.g. for insulation boards
- ::: Water proofing under screed / floor and wall coverings
- ::: Repair of sealed surfaces (e.g. balcony and roof)
- ::: Approved permanent elastic sealant

### Product data and delivery form

- 5004153 LiquidElast® type S, 1 kg bag
- 5004143 LiquidElast® type S, 7 kg bag



### Surface Preparation

Surfaces must be solid, stable, and free of dust, grease, oils, and other separating materials. The substrate may be humid but not wet with visible water film. Suitable for concrete and other mineral materials as well as plasterboard, wood, PVC, ceramic, etc. In a case of doubt we recommend a preliminary test.

### Processing

LiquidElast® type S is directly applied to the surface with a short pile roller or brush (also paintbrush for small areas) about 1 mm thick. No primer is required for suitable surfaces. 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 perpendicular to the painting direction of the first coating. The second layer can be applied after the skin formation of the first LiquidElast® layer (ca. 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, e.g. to seal surfaces, construction joints and joints between components up to a water height of 10 m.

Small joints up to 1 mm width can be sealed versus 10 m of water pressure if a reinforcing mesh is inserted into the external lamellar LiquidElast® S double layer seal (with general technical approval).

When renovating sanded bituminous sheets and areas with very high UV exposure, apply another thin layer of LiquidElast® type S on top. This layer has to be covered / sprinkled completely e.g. with slate split.

### Processing as a joint sealing

When used as a joint sealant in accordance with DIN 18540, 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 sealant must be filled into the joint free from voids and bubbles. Smoothing of the surface is in most cases not 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 S has to be protected from water / moisture. After sealant curing it might be necessary to protect the surface from mechanical damaging.

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### Notes

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

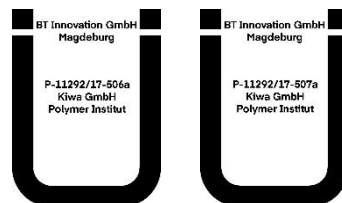
### Packaging

7 kg/carton (60 cartons/pallet)

### Technical properties

Color	Grey
Consistency	Creamy (brush able)
Processing	1- component material (Reacts with air humidity to a soft-elastic, rubber-like material)
Specific density	Ca. 1,5 g/cm <sup>3</sup>
Hardness	Ca. 35 (shore A type) after 4 weeks **
Crack bridging	to 5 mm as membrane
Max. possible deformation	15% In joints
Elongation at break	> 400 %
Thermal resistance	-40°C to +80°C
Volume change (shrinkage)	< 1 %
Skin formation time	About 30 min**
Curing	About 3 mm / 24 h **
Application temperature	0°C to 35°C component and material temperature
Paste stability	Steadfast < 2 mm
Reaction to fire	Class 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 % relative air 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.