

Technical Data Sheet – InnoElast® Type 1

Product description

InnoElast® type 1 is a 1-component permanently elastic sealant according to DIN EN 15651-1,-4 and DIN 18540-F for expansion and connection joints in the entire construction area (indoor and outdoor, concrete, wood, metal, facade and roof construction).

Product features

- ::: 1-component sealant
- ::: Almost non-shrinking and permanently elastic
- ::: No primer necessary
- ::: Also for processing on moist substrates
- ::: Processing from -3°C on ice-free surfaces
- ::: Free of solvents and isocyanates
- ::: High initial adhesion even when fresh
- ::: Weather and UV resistant
- ::: Painting compatible
- ::: Can be combined with other Elast products and is compatible with bitumen

Areas of application

- ::: Expansion and connection joints in the entire construction area (indoor and outdoor, concrete, wood, metal, facade and roof construction)
- ::: Adhesive for the ProElast® system
- ::: Permanently elastic sealant according to DIN EN 15651-1, -4 and in structural engineering according to DIN 18540-F

Product data and delivery form

5004113 InnoElast® type 1 grey, 600 ml
Tubular 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 damp but not wet with a visible film.

Suitable substrates are concrete and other mineral building materials as well as plasterboard, wood, PVC, ceramic, bitumen etc.

Processing

InnoElast® is applied directly into the clean joint or onto the surface using a cartridge gun for tubular bags. Primer is not necessary for suitable substrates.

3-sided adhesion to the joint bottom must be prevented by inserting a suitable joint backfilling cord or a strip of polyethylene. It is recommended to mask the edges of the joint with adhesive tape. The sealing compound must be inserted into the joint without voids and bubbles. A good bond to the joint flanks can be produced by pressing on and smoothing. Pure liquid soaps and detergents (not diluted with water) are suitable as smoothing agents. Masking adhesive tapes should be removed immediately after smoothing. The maximum sealant thickness in one process should not exceed 5 cm.

When used as a surface adhesive, InnoElast® is applied onto the surface and spread evenly, for instance using a toothed scraper, to a layer thickness of 1 to 2 mm. Pressing it down over the entire surface ensures a bond free of voids and bubbles. Gluing with InnoElast® over a large surface requires a moisture-permeable substrate. For impermeable substrates we recommend using the LiquidElast® adhesive and sealant with artificial curing agent.

For tightly gluing the ProElast® foil, please observe the processing instructions in the "ProElast® system" data sheet. In case of doubts about preparing the substrate and processing, we recommend a preliminary test.

Follow-up treatment

InnoElast® type 1 must be protected from getting wet before it forms a stable skin. Once the sealant has completely cured, the sealant should be protected against mechanical damage. If being subsequently painted, due to the wide range of possible painting systems we recommend preliminary tests. InnoElast® type 1 is painting compatible in accordance with DIN 52452 Part 4.

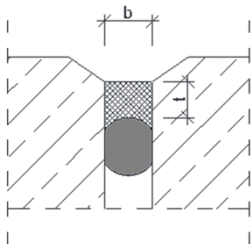
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Consumption and minimum joint dimensions

For the joint sealing in accordance with DIN 18540, ensure that the joint design is sufficiently wide (≥ 5 mm) and sufficiently deep (≥ 10 mm and $\geq \frac{1}{2}$ width).

Consumption: 1 ml/cm³

Volume [ml/m]= $b \times t \times 100$ (values in cm)



Minimum joint dimensions:

$5 \text{ mm} \leq b \leq 50 \text{ mm}$

$t \geq \begin{cases} 10 \text{ mm} \\ 0,5 \times b \text{ (wide joints greater 20 mm)} \end{cases}$

Notes

InnoElast® is moisture curing, which means high air temperatures and high moisture in the ambient air accelerate the hardening process (and reduce the open time), whilst low temperatures and low moisture slow it down.

Bituminous substrates can result in discolorations in the sealant without any other effects.

Hardened residue can be mechanically removed with a scraper or trowel.

The fresh product can be removed from tools with solvents. When choosing tools, make sure they are resistant to solvents.

Storage

> 12 months, when stored in a cool, dry place.


Occupational safety

Please observe the health and safety information on the safety data sheet.

Technical properties

Color	grey
Consistency	pasty
Processing form	1-component, (reacts with moisture to make a rubber-like material)
spec. density	Ca. 1.5 g/cm ³
Hardness	approx. 25 (Shore A type) measured after 4 weeks **
Tensile strength	approx. 0.4 N/mm ² at 100% elongation
max. movement absorption	25 % (in joints)
Elongation at break	>700 %
Temperature resistance	-40°C to +80°C briefly to +220°C
Volume change	< 2 %
Stability of the paste	stable < 2 mm
open time (skin formation time)	approx. 2 - 3 h**
Through hardening	approx. 2 mm/24 h **
Processing temperature	-3°C to +40°C (element and material temperature)
Elastic recovery	> 70% (according to ISO 7389)
Fire behavior	Category E (DIN EN 13501-1)

** at 23°C, rel. humidity

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Joint sealant in building construction, expansion and connection joints in the entire construction sector F Ext-Int CC 25LM, PW CC 25LM	

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 special local conditions. 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.