for faster construction

BT innovation

Technical Data Sheet – InnoElast® Type 2

Product description

InnoElast® type 2 is a 1-component, permanently elastic adhesive and sealant for joints exposed to high loads in the entire construction area according to DIN EN 15651-1. InnoElast® type 2 bonds to many materials without a primer and seals joints versus up to 4.80 m of pressing water.

Product features

::: 1-component adhesive and sealant
::: Good ability to squirt out
::: No primer necessary
::: Also for processing on moist substrates
::: Processing from -3°C on ice-free surfaces
::: Free of solvents and isocyanate
::: Very high initial adhesion even when fresh
::: Weather and UV resistant
::: Painting compatible
::: High chemical resistance
::: Can be combined with other Elast products (compatible with bitumen)

Areas of application

::: Adhesive and sealant for joints exposed to high loads in the entire construction sector (indoor and outdoor, for concrete, wood and metal without primer).
::: Permanently elastic sealant for facades and in roof areas according to DIN EN 15651-1
::: Sealing of cellars and in civil and underground engineering versus pressing water, waterproofing tested up to 4.80 m
::: For repairing and sealing defects and voids
::: Adhesive for the ProElast® system

Product data and delivery form of InnoElast® type 2

5004115 - black in 600 ml tubular bags,
5004247 - grey in 600 ml tubular bags (available on request),
5004258 - grey in 400 ml tubular bags (available on request)

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, metals, PVC, ceramic, bitumen etc. In case of doubt we recommend a preliminary test.

Processing

InnoElast® is applied directly using a cartridge gun for tubular bags. Primer is not necessary for suitable substrates.
For general joint sealing, ensure that the joint design is sufficiently wide (≥5 mm) and sufficiently deep (≥ 10 mm and ≥ ½width). 3-sided adhesion to the joint bottom must be prevented by inserting a suitable joint filling 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 (not diluted with water), e.g. detergents, are suitable as smoothing agents. The masking adhesive tape should be removed again immediately after smoothing. The maximum sealant thickness in one process should not exceed 5 cm.
If applied as joint sealant versus pressing water (approval certificate P-1201/106/17 MPA-BS), additional measures such as a joint filling depth of ≥ 20 mm must be observed: The concrete (waterproof concrete quality) as substrate must be sufficiently hardened (typical concrete ≥ 7 days old). The joint can be exposed to water pressure 7 days after the processing of the InnoElast® Type 2 has been completed.

When used as a surface adhesive, InnoElast® is applied evenly to the substrate surface and spread 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.

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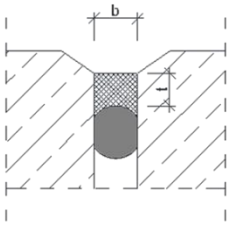
Follow-up treatment

During the time that it takes to form a stable skin, InnoElast® must be protected from getting wet. If being subsequently painted, due to the wide range of possible painting systems we recommend preliminary tests. InnoElast® type 2 Is painting compatible in accordance with DIN 52452 Part 4.

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 ≥ ½width).

Consumption: 1 ml/cm³
Volume [ml/m]=b×t×100 (values in cm)



Minimum joint dimensions:

Mindestfugenmaße:

5 mm ≤ b ≤ 50 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, high air temperatures and high moisture in the ambient air accelerate the hardening process (and reducing the open time), whilst low temperatures and low moisture slow it down. Preheating the material at temperatures below +5°C improves the workability.
This data sheet only describes the processing instructions for the most frequent application areas. For different applications, we recommend a preliminary test in case of doubt. Hardened residue can be mechanically removed with a scraper or trowel. We recommend contacting our application technology department to clarify any questions.

Storage

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

Packaging

600 ml tubular bag – 10 pieces/carton
(45 cartons/pallet)

Occupational safety

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

Technical properties

Color	black. grey
Consistency	pasty
Processing form	1-component (reacts with moisture to an elastic, rubber-like material)
spec. density	Ca. 1.5 g/cm³
Hardness	approx. 55 (Shore A type) measured after 4 weeks **
Tensile strength	approx. 2.5 N/mm² (2 mm film)
max. movement absorption	10 % (in joints)
Elongation at break	> 400 %
Temperature resistance	-40°C to +100°C (briefly to +220°C)
Volume change	< 2 %
Stability of the paste	stable < 2 mm
Chemical resistance	see data sheet on chemical resistance – InnoElast® type 2
Open time (skin formation time)	approx. 15 min
Through hardening	approx. 3 mm/24 h (measured at 23°C, 50% rel. humidity)
Processing temperature	-3°C to +40°C (element and material temperature)
Stability	stable < 2 mm
Fire behavior	Category E (DIN EN 13501-1)

** at 23°C, rel. humidity

CE 0432

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DoP No. 15651-1-2014-2
EN 15651-1: 2012

Joint sealant for outdoor and indoor facades, suitable for use in cold climate zones
F Ext-Int CC 12,5 E

BT Innovation GmbH Magdeburg
P-1201/106/17
MPA-BS

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 07/20 – 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.