

Installation of AgrarElast

AgrarElast is a 1-component, permanently elastic adhesive and sealant for highly stressed joints in agricultural construction. AgrarElast is used to seal microbiologically and acid contaminated areas. AgrarElast is moisture-curing, which means that high temperatures and/or high absolute humidity in the ambient air accelerate the curing process (thus reducing the open time), while low temperatures slow down the curing process. With wider joints, curing slows down in the deeper layers. Uncured material can be removed from tools and equipment with solvent. Cured material must be removed mechanically. The system consists of the components: AgrarElast, Primer B (eton) for concrete, Primer A (sphalt) for asphalt and Primer S (tahl) for steel. For joint sealing of agricultural JGS and biogas plants, the approval Z 74.62-176 must be observed.

SURFACE PREPARATION

01 - Clean surface

The surface must be dry, solid and load-bearing, as well as free from dust, grease, oils and other separating materials. Remove loose sintered layers or rust, mortar residues and cement slurry. Smooth surfaces and asphalt must be sanded.

02 - Insert filler cord

To avoid a 3-flank adhesion to the joint base, a suitable joint filler cord or a strip of polyethylene must be inserted into the joint. The joint filler cord / polyethylene strip can be inserted into the joint either before or after applying the primer.

03 - Apply primer

The cleaned surfaces are pre-treated with Primer A(sphalt) for bituminous substrates or with Primer B(eton) for concrete (glass, plastics, lacquers) or with Primer S(tahl) for steel and cast iron (metal, tiles and plastics). Please observe the flash-off times (min. 15 or 30 min) and the open time of the primers (max. 4h, 6h or 24 h, all at 23°C).

04 - Mask the joint edges (optional)

For a clean joint formation, it is recommended to mask the joint edges with adhesive tape.



PROCESSING AS A JOINT SEALANT

05 - Application into the joint

AgrarElast is applied directly using a tubular bag applicator gun. The AgrarElast sealant must be applied to the joint free of cavities and bubbles.

06 - Pressing

A good adhesion with the pre-treated joint flanks is to be achieved by pressing and subsequent smoothing.

07 - Smoothing the joint

Neutral liquid soaps / washing-up liquids are suitable as smoothing agents. Any adhesive tape applied must be removed immediately after smoothing.



PROCESSING AS AN ADHESIVE

01 - Application to the surface

When used as an adhesive, AgrarElast is applied evenly to the pre-treated adhesive surface and spread with a notched trowel to a layer thickness of 1 to 2 mm.

02 - Pressing

A cavity- and bubble-free adhesion must be ensured by pressing on the entire surface. Bonding of large-surfaces with AgrarElast require a moisture-permeable substrate. If in doubt about surface preparation and application, we recommend a preliminary test.



REPAIRING OLD JOINTS

The existing old joint compound must be completely removed, and the joint edges sanded. Then, the surface can be pre-treated with primer and the joint can be filled with AgrarElast. If the old joint sealant is AgrarElast with only a few damaged areas, then these damaged areas must be removed, and the joint flanks of the intact sealant must be pre-treated with Primer B (concrete) before the new joint can be filled with AgrarElast.

AFTERTREATMENT

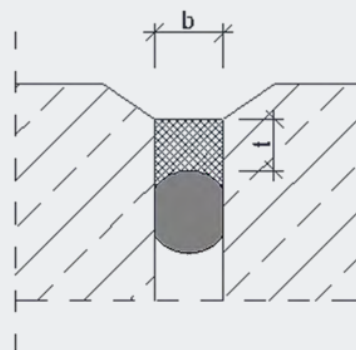
Protect AgrarElast from moisture during the period of stable film formation. For subsequent coating, we recommend carrying out your own tests due to the wide range of possible coating systems.

CONSUMPTION AND MINIMUM JOINT COMPOUND

For joint sealing in biogas plants and plants for the storage and transfer of slurry, liquid manure silage effluent, the joint width and depth required in approval Z 74.62-176 must be observed. In all other cases, the joint seal should be sufficiently wide (≥ 5 mm) and deep (≥ 10 mm and $\geq \frac{1}{2}$ width).

Calculation:

Consumption: $1 \text{ ml} / \text{cm}^3$
Volume $[\text{ml}/\text{m}] = b \times t \times 100$ (values in cm)



YOU HAVE FURTHER QUESTIONS?

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Issue 02/23 – In all cases of doubt, the technical data sheets and the DIBt approval Z 74.62-176, which is intended to supplement these instructions, apply. These installation instructions have been technically revised. Previous editions are invalid. In case of a technically revised new edition, this edition loses its validity. Please check whether you are in possession of the current edition.