

AdhesionsTechnics

Klebt einfach besser Simply amazing glue

BELI-ZELL Instructions

BELI-ZELL is a single component polyurethane adhesive, contains no solvents, is virtually odourless and reacts with the moisture content of material, air humidity or added water.

Application areas

BELI-ZELL can be used with almost any material which is typically used for model making, e.g.

- Expanded material - polystyrene cellular plastics, extruded polypropylene, polyurethane foam, etc. - irrespective of specific trade names
- Wood - balsa, pine, poplar, obeche, plywood
- Glass fibre / carbon fibre / hybrid fibre laminate (note instructions below)
- Metal - aluminium, brass, etc. (note instructions below)
- Paper, cardboard, cork, etc.
- Mineral material

General instructions for use

Surfaces to be joined must be clean and free of dust and grease. The surfaces do not need to be very close together, as gaps can be easily filled by BELI-ZELL. Apply BELI-ZELL sparingly on one surface – preferably on the less porous one. Fix (not press!) the assembled parts with crepe tape, a clamp or something similar for the appropriate amount of time.

Note: Use BELI-ZELL sparingly as it expands about three times of its original volume during setting time. Hence fixing of assembled parts not less than setting time lasts is strongly recommended.

Warmth (max. 70°C) and moisture expedites the reaction, i.e. setting time is shortened. Materials without water content (e.g. aluminium) can also be glued by moistening the BELI-ZELL glue with a little water.

The cured glue is water-resistant, has a high resistance to fuel and a good resistance to weak acids, alkalines and most solvents.

Always keep the applicator clean and replace the cap on top of the applicator properly in order to prevent BELI-ZELL setting in the tube. A clogged applicator can easily be cleaned with a small wire, needle or something similar.

Ideal processing conditions: 23°C, 50-60% relative humidity.

BELI-ZELL fast (available spring/summer 2011)	Setting time	30-60 sec
	Initial cure	4 min
	Full cure	7 min
BELI-ZELL 10min	Setting time	7-10 min
	Initial cure	30-40 min
	Full cure	24 h

Special instructions for use

Wood	Use as wood glue; the glue is water-resistant and has a high fuel durability
Foams	Expanding foam can be glued without any further preparation of the surface, even on broken and cut pieces. All other foam and moulded parts should be degreased and scoured beforehand.

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Laminates, Metal	Glass fibre, carbon fibre laminates and metals should be degreased and scoured carefully. If bonding material without water content, apply BELI-ZELL on all surfaces and spray a little water on the glue after applying it.
Fabrics	Layers of fabrics can be used to make sandwich materials or to reinforce constructions, e.g. a foam-fabric-wood sandwich or wings planked with fabric + wood

Cleaning

Excess glue can be removed with acetone. When the glue is completely set, it can be removed by mechanical means only.

Storage

Store BELI-ZELL in a cool, dry place away from frost. Storage at 15-25°C is recommended.

Storage life in sealed tube:

BELI-ZELL fast	12 months
BELI-ZELL 10min	12 months

First aid and safety measures

Inhalation: Supply fresh air; if complaint persists seek medical attention for safety reasons.

Skin contact: Wash and rinse thoroughly with plenty of water and soap.

Eye contact: Rinse immediately with plenty of running water.

Ingestion: Rinse mouth. If complaint persist, seek medical attention from a specialist.

Keep out of the reach of children. Wash hands after use. Do not eat, drink or smoke while using BELI-ZELL.

Important

Glues contain chemicals and may cause, in case of improper use, health impairments. Always use suitable tools (like palette-knife, applicator) for applying glues – never with unprotected body parts.

Follow the manufacturer's instructions!



Warning – May cause an allergic skin reaction.

Contains aliphatic diisocyanate prepolymer, hexamethylene-1,6-diisocyanate



BELI-ZELL 10min