

Technical Data Sheet

Page 1 of 2

- Properties:** AKEMI® Everclear 110 is a gel-like, solvent-free two-component reaction-resin system. The product is distinguished by the following properties:
- UV-stable
 - transparent, colourless
 - solvent-free
 - no discolouring in the contact area
 - good stability due to gel-like consistency
 - low shrinkage, therefore only minimal tension within the bonding joint
- Application Area:** AKEMI® Everclear 110 is mainly used in the stone-working industry for bonding and glueing of natural stones (marble, granite) as well as artificial stones or building materials (terrazzo, concrete). It is possible to treat very light-coloured respectively white natural stone because Everclear 110 is a non-yellowing system. Due to its gel-like, smooth consistency the product has a good stability in vertical areas, furthermore thin bonding joints can be made. In addition other materials like for example plastics, paper, wood, glass and the more can be bonded with Everclear 110. Due to the variety of materials existing we recommend a testing bond. Polyolefins like polyethylene, polypropylen, teflon (e.g. PTFE), silicone and other materials containing plasticisers (e.g. soft PVC) are not suited to be bonded with Everclear 110.
- Instructions for Use:** The surfaces to be bonded must be thoroughly cleaned (free of dust, dirt and grease), slightly roughen smooth surfaces.
- Product in cans:
1. 100 g of component A are to be homogenously mixed with 80 g of component B. The mixing ratio must be strictly observed to. A surplus of component A has the effect of a plasticizer and may in addition slowly result in yellowing.
 2. Colouring is possible by adding up to 2% of polyester colouring pastes.
 3. The mixture remains workable for approx. 8 minutes (20°C), after 3 hours (20°C) the bonded parts may be moved, after 8 hours they may be further processed. Max. stability after 7 days.
 4. Clean tools immediately with AKEMI® Universal Dilution. Once hardened, the product can only be removed mechanically.
 5. Warmth accelerates, cold slightly delays the hardening process.
- Product in cartridges:
1. Remove the clasp from the cartridge and put the cartridge in the gun; work the grip until material emerges from both openings; then eventually screw up the mixing nozzle.
 2. If used without mixing nozzle both components have to be thoroughly mixed.
 3. Colouring Pastes for polyester can be added up to max. 2%.
 4. The mixture remains workable for approx. 8 minutes (20°C), after 3 hours the bonded parts may be moved, after 8 hours they may be further processed. Final stability after 7 days.
 5. Clean tools immediately with AKEMI® Universal Dilution. Once hardened, the product can only be removed mechanically.
 6. The hardening process is accelerated by heat and delayed by cold.

TDS 11.15

Technical Data Sheet

Page 2 of 2

Special Notes:

- Not suited for application under permanent wet conditions.
- The optimal mechanical and chemical properties can only be attained by adhering to the exact mixing proportions; excess adhesive has the effect of a plasticizer and may slowly cause yellowing. Surplus of component A has the effect of a plasticizer and may slowly result in yellowing; low surplus of component B (max. 5%) does not have a negative influence on the product properties.
- The surfaces to be bonded must be dry, clean and free of grease. Humidity results in a formation of bubbles in the glue and therefore in a loss of stability.
- The product is not to be used at temperatures below 5°C, because it will not sufficiently harden.
- The bonding should not be permanently exposed to temperatures above 60°C, for a short period of time temperatures up to 100°C are possible.
- The hardened product can be removed only mechanically.

Technical Data:

Colour: colourless, opaque

Density: component A: 1.10 g/cm³
component B: 1.15 g/cm³

Working time: 5°C: approx. 30 minutes
20°C: approx. 10 minutes
30°C: approx. 9 minutes
40°C: approx. 8 minutes
50°C: approx. 7 minutes

Hardening process (Shore D hardness) at 20°C:

<u>3 hrs</u>	<u>4 hrs</u>	<u>5 hrs</u>	<u>6 hrs</u>	<u>24 hrs</u>	<u>7 days</u>
50	60	65	70	74	80

Mechanical properties:

Bending strength 70 – 80 N/mm²

Tensile strength 40 – 50 N/mm²

Storage:

Approx. 12 months under cool conditions (<25°C) in the firmly closed original container. Use open containers as quick as possible.

Health & Safety:

Read Material Safety Data Sheet before handling or using this product.

Important Notice:

The above information is based on the latest stage of development and application technology. Due to a multiplicity of different influencing factors, this information – as well as other oral or written technical advises – must be considered as non-binding hints. The user is obliged in each particular case to conduct performance tests, including but not limited to trials of the product, in an inconspicuous area or fabrication of a sample piece.

TDS 11.15