



Premium Epoxyacrylate Adhesive

Technical Data Sheet

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Properties:

AKEMI[®] PLATINUM Premium epoxyacrylate adhesives are flowing or knife-grade 2-component products based on unsaturated epoxyacrylate resins dissolved in styrene. The products are distinguished by the following qualities:

- wide field of application due to different consistencies
- very light, transparent colour
- fast hardening (15 40 minutes)
- excellent surface drying
- excellently polishable
- improved protection against yellowing
- very good adhesion on natural stones also at higher temperatures (60 - 70°C /140 - 158°F); in case of low exposure to strain: 100 - 110°C/212 - 230°F)
- resistant to water, petrol and mineral oils
- after hardening the product is harmless to health upon contact with food products certified by an external German testing institute

Application Area:

AKEMI[®] PLATINUM adhesives are mainly used in stone processing industry for bonding natural stones, Engineered Stone, ceramics and large-size techno ceramic (e.g. Dekton[®], Lapitec[®], Neolith[®], Laminam[®], Kerlite[®], Maxfine), reinforcement of natural stone slabs with glass fibre products (laminating) and forming of rock substitutes with crushed rocks and sand.

Special properties:

PLATINUM clear flowing: moderately viscous consistency knife-grade consistency for vertical

applications

Instructions for Use:

- The surface to be treated must be clean, completely dry and roughened.
- 2. Colouring is possible by adding AKEMI[®] Polyester Colouring Pastes or Colouring Concentrates up to max. 5 %. PLATINUM clear knifegrade can be diluted in any ratio by adding PLATINUM clear flowing.
- 3. Add 1 to 3 g of white hardener paste to 100 g of adhesive (4 to 5 cm of paste pressed out of the screw tube correspond to 1 g).
- 4. Mix both components thoroughly. The mixture can be worked for about 5 to 15 minutes (20°C/68°F), depending on the product and the quantity of hardener added.
- 5. After 15 to 40 minutes the treated parts can be further processed (grinding, milling, drilling).
- 6. The hardening process is accelerated by heat and delayed by cold.
- 7. Tools can be cleaned with AKEMI® Nitro-Dilution.

Special Notes:

- Use AKEMI® Liquid Glove to protect your hands.
- Hardener portions higher than 4 % reduce adhesion and deteriorate surface drying.
- Hardener portions higher than 3% cause a striking yellowness in the hardened product.
- Hardener portions less than 1 % and low temperatures (below 5°C/41°F) considerably delay hardening.
- An adhesive which is already thickened or just gelling should not be used anymore.

TDS 04.16





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- The bonding layers should be as thin as possible (< 1 mm) due to shrinkage (approx. 5-8 %) caused by the high reactivity of the filler and development of heat during the hardening process.
- Non-durable resistance of bondings which are frequently exposed to humidity and frost.
- Moderate adhesion on fresh, alkaline building materials (e.g. concrete, concrete bricks).
- The hardened adhesive has a low tendency to yellowing.
- Once hardened, the adhesive can no longer be removed by solvents.
 Removal is only possible mechanically or by higher temperatures (> 200°C/392°F).
- Being worked properly, the hardened adhesive is generally recognized as not injurious to health.

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Colour: Density:	c <u>lear flowing</u> transparent clear approx. 1.04 g/cm ³	clear knife-grade transparent opaque approx. 1.10 g/cm³		
Working time / min.:				
a) at 20°C/68°F 1% of hardener: 2% of hardener: 3% of hardener:	13 - 15 6 - 8 4 - 6	13 - 15 6 - 8 4 - 6		
b) with 2% of hardener:				
at 10°C/50°F:	10 - 18	10 - 18		
at 20°C/68°F:	6 – 8	6 – 8		
at 30°C/86°F:	3 – 5	3 - 5		
Tensile strength DIN EN IS Bending strength DIN EN I		.5 N/mm² 0 N/mm²		

Storage:

1 year approx. if stored in cool place free from frost in its tightly closed original container.

Compression strength DIN EN ISO 604:100 - 110 N/mm²

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 trails of the product, in an inconspicuous area or fabrication of a sample piece.