

PLATINUM P+

Premium Epoxyacrylate Adhesive

Technical Data Sheet

Page 1 of 3

Properties:

AKEMI® PLATINUM P+ adhesives are flowing or knife-grade 2-component products based on unsaturated epoxyacrylate resins dissolved in styrene.

The products are characterized 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
- improved adhesion and bonding strength, also on Techno Ceramic
- very good adhesion on natural stones also at higher temperatures (60 - 70°C; in case of low exposure to strain: 100 - 110°C)
- resistant to water, petrol and mineral oils
- when properly applied, the hardened product is classified as harmless to health for bondings of natural and artificial stone as well as ceramics upon contact with food

Application Area:

AKEMI® PLATINUM P+ adhesives are mainly used in stone processing industry for bonding natural stone, quartz, ceramics and large-size Techno Ceramic (e.g. Dekton®, Lapitec®, Neolith®, Laminam®, Kerlite®, Maxfine), reinforcement of natural stone slabs with glass fiber products (laminating) and forming of rock substitutes with crushed rocks and sand.

Special properties:

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

Instructions for Use:

- 1. The surface to be treated must be clean, completely dry and roughened.
- 2. Colouring is possible by adding either AKEMI® Polyester Colouring Pastes, Colouring Concentrates up to max. 5% or AKEMI® Spectrum Pastes. PLATINUM P+ clear knife-grade can be diluted in any ratio by adding PLATINUM P+ 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), 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).
- The hardening process is accelerated by heat and delayed by cold.
- Tools can be cleaned with AKEMI® Nitro Thinner.

Special Notes:

- For professional use only.
- Use afin® 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.

TDS 06.22





Premium Epoxyacrylate Adhesive

Technical Data Sheet

Page 2 of 3

- Hardener portions less than 1% and low temperatures (below 5°C) considerably delay hardening.
- For light colours, work with more concentrate and only 1% of hardener.
- After adding the hardener, the colour changes to yellow, but disappears again before gelling.
- An adhesive which is already thickened or just gelling should not be used anymore.
- 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).
- Being worked properly, the hardened adhesive is generally recognized as not injurious to health.
- Recycling in accordance with the guidelines of EU Decision 97/129
 EC on the Packaging Directive 94/62/EC.

Technical Data:	Colour:	clear flowing transparent clear	clear knife-grade transparent opaque
	Density:	approx. 1.04 g/cm³	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: at 20°C/68°F: at 30°C/86°F:	10 - 18 6 - 8 3 - 5	10 - 18 6 - 8 3 - 5
	Tensile strength DIN EN ISO 527: 40 - 45 N/mm² Bending strength DIN EN ISO 178: 70 - 80 N/mm² Compression strength DIN EN ISO 604:100 - 110 N/mm²		

Storage: If stored in dry and cool condition (5-25°C/41-77°F) in its closed original

container at least 12 months from production.

Health & Safety: Read Safety Data Sheet before handling or using this product.



PLATINUM P+

Premium Epoxyacrylate Adhesive

Technical Data Sheet

Page 3 of 3

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.