Technical Data Sheet

Properties:

AKEMI® PLATINUM MAXI POWER adhesives are flowing and knife-grade 2-component products based on unsaturated epoxyacrylate resins dissolved in styrene.

The products are characterized by the following properties:
- further improvements in adhesion and bonding strength compared to the PLATINUM P+ version, especially on limestone and marble (approx. 90%) and on Techno Ceramic (approx. 60%) = MAXI POWER
- extremely light and transparent in the colour clear CC 2200 (more transparent than the PLATINUM P+ version)
- pre-coloured variants are also available
- fast hardening (15 - 30 minutes)
- wide field of application due to different consistencies
- excellent surface drying
- excellently polishable
- improved protection against yellowing
- 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 used correctly, the product is classified as harmless to health in its hardened state for bonding natural and artificial stone as well as cermics that may come into contact with food

Application Area:

AKEMI® PLATINUM MAXI POWER adhesives are mainly used in stone processing industry for bonding natural stones, 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 MAXI POWER flowing: moderately viscous consistency
PLATINUM MAXI POWER 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 AKEMI® Polyester Colouring Pastes or Colouring Concentrates up to max. 5%, and also by adding AKEMI® Spectrum Pastes. PLATINUM MAXI POWER knife-grade can be diluted in any ratio by adding PLATINUM MAXI POWER 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 applied for about 3 to 11 minutes (20°C), depending on the product and the quantity of hardener added.
5. After 15 to 30 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 Thinner.

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Special Notes:

- For professional use only.
- Hardener portions exceeding 3% reduce adhesion and deteriorate surface drying.
- Hardener portions higher than 2% cause a striking yellowness in the hardened product.
- Hardener portions less than 1% and low temperatures (below 5°C) considerably delay hardening.
- We suggest a hardener portion of 1% for best results in colour lightness.
- 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.
- Bondings frequently exposed to humidity and frost are non-durable.
- 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.
- Within the EU: subject to the self-service prohibition regulation and shall only be sold by specialized sales outlets.
- For proper waste disposal the container must be completely emptied.
- Recycling in accordance with the guidelines of EU Decision 97/129 EC on the Packaging Directive 94/62/EC.

Technical Data of the adhesive (not the bond):

	flowing	knife-grade
Colour:	clear CC 2200	clear CC 2200 black CC 1040 white CC 1130 white CC 1140 beige CC 1720 beige CC 1735 brown CC 2030 grey CC 1840
Density:	approx. 1,07 g/cm³	approx. 1.10 g/cm³
Working time / min		
a) at 20 °C		
1% hardener	9 - 11 min	9 - 11 min
2% hardener	6 - 8 min	6 - 8 min
3% hardener	3 - 5 min	3 - 5 min
b) with 2% hardener		
at 10°C	9 - 11 min	9 - 11 min
at 20°C	6 - 8 min	6 - 8 min
at 30°C	2 - 4 min	2 - 4 min

Tensile strength DIN EN ISO 527:	25 - 30 N/mm²
Bending strength DIN EN ISO 178:	35 - 45 N/mm²
Compression strength DIN EN ISO 604:	45 - 55 N/mm²

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Storage:	If stored under dry and cool conditions (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.
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.

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