

## **Technical Data Sheet**

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Properties:	<ul> <li>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:</li> <li>wide field of application due to different consistencies</li> <li>very light, transparent colour</li> <li>fast hardening (15 - 40 minutes)</li> <li>excellent surface drying</li> <li>excellently polishable</li> <li>improved protection against yellowing</li> <li>improved adhesion on natural stones also at higher temperatures (60 - 70°C; in case of low exposure to strain: 100 - 110°C)</li> <li>resistant to water, petrol and mineral oils</li> <li>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</li> </ul>
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:	<ol> <li>The surface to be treated must be clean, completely dry and roughened.</li> <li>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.</li> <li>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).</li> <li>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.</li> <li>After 15 to 40 minutes the treated parts can be further processed (grinding, milling, drilling).</li> <li>The hardening process is accelerated by heat and delayed by cold.</li> <li>Tools can be cleaned with AKEMI® Nitro Thinner.</li> </ol>
Special Notes:	<ul> <li>Use afin<sup>®</sup> Liquid Glove to protect your hands.</li> <li>Hardener portions higher than 4% reduce adhesion and deteriorate surface drying.</li> <li>Hardener portions higher than 3% cause a striking yellowness in the hardened product.</li> <li>Hardener portions less than 1% and low temperatures (below 5°C) considerably delay hardening.</li> </ul>



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	<ul> <li>An adhesive which is already thickened or just gelling should not be used anymore.</li> <li>The bonding layers should be as thin as possible (&lt; 1 mm) due to shrinkage (approx. 5 - 8%) caused by the high reactivity of the filler and development of heat during the hardening process.</li> <li>Non-durable resistance of bondings which are frequently exposed to humidity and frost.</li> <li>Moderate adhesion on fresh, alkaline building materials (e.g. concrete, concrete bricks).</li> <li>The hardened adhesive has a low tendency to yellowing.</li> <li>Once hardened, the adhesive can no longer be removed by solvents. Removal is only possible mechanically or by higher temperatures (&gt; 200°C).</li> <li>Being worked properly, the hardened adhesive is generally recognized as not injurious to health.</li> </ul>		
Technical Data:		<u>clear flowing</u>	<u>clear knife-grade</u>
	Colour: Density:	transparent clear approx, 1.04 g/cm <sup>3</sup>	transparent opaque approx, 1,10 g/cm <sup>3</sup>
Storage:	<ul> <li>Working time / min.:</li> <li>a) at 20°C/68°F</li> <li>1% of hardener:</li> <li>2% of hardener:</li> <li>3% of hardener:</li> <li>b) with 2% of hardener:</li> <li>at 10°C/50°F:</li> <li>at 20°C/68°F:</li> <li>at 30°C/86°F:</li> <li>Tensile strength DIN EN IS</li> <li>Bending strength DIN EN IS</li> <li>Compression strength DIN</li> </ul>	13 - 15 6 - 8 4 - 6 10 - 18 6 - 8 3 - 5 50 527: 40 - 45 SO 178: 70 - 80 EN ISO 604:100 - 110 addition (5-25°C/41-77°E	13 - 15 6 - 8 4 - 6 10 - 18 6 - 8 3 - 5 N/mm <sup>2</sup> N/mm <sup>2</sup> N/mm <sup>2</sup>
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.		
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.		