

## **Technical Data Sheet**

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| Properties:           | AKEMI <sup>®</sup> Marble Fillers 1000 Transparent styrene-reduced are highly liquid or knife-grade 2-component products based on unsaturated polyester resins dissolved in styrene. The products are distinguished by the following qualities:   |  |  |  |
|-----------------------|---|--|--|--|
|                       | <ul> <li>wide field of application due to different consistencies</li> <li>fast hardening (20 - 60 minutes)</li> <li>excellently polishable</li> <li>very good 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>styrene-reduced, therefore not subject to the self-service regulation</li> </ul>  |  |  |  |
| Application Area:     | <ul> <li>AKEMI<sup>®</sup> Marble Fillers 1000 Transpare<br/>used in stone processing industry for B<br/>ment of natural stone slabs with glass<br/>forming of rock substitutes with crushe<br/>Consistency: <ul> <li>Transparent:</li> <li>Transparent extra liquid:</li> <li>Transparent L-Special:</li> </ul> </li> </ul>  | oonding natural stone, reinforce-<br>fibre products (laminating) and   |  |  |
| Instructions for Use: | <ol> <li>The surface to be treated must be clean, completely dry and<br/>roughened.</li> <li>Colouring is possible by adding AKEMI<sup>®</sup> Polyester Colouring Pastes<br/>or AKEMI<sup>®</sup> Polyester Colouring Concentrates up to max 5 %. AKEMI<sup>®</sup><br/>Marble Filler 1000 transparent and AKEMI<sup>®</sup> Marble Filler 1000<br/>transparent L-special can be diluted with AKEMI<sup>®</sup> Marble Filler 1000<br/>transparent extra liquid in any mixing ratio.</li> <li>Add 1 to 4 g of white hardener paste to 100 g of filler (4 to 5 cm of<br/>paste pressed out of the screw tube correspond to 1 g).</li> <li>Mix both components thoroughly. The mixture can be worked for<br/>about 3 to 16 minutes (20°C), depending on the product.</li> <li>After 20 to 60 minutes (depending on the product) the treated parts<br/>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<sup>®</sup> Nitro-Dilution.</li> </ol> |  |  |  |
| Special Notes:        | <ul> <li>Hardener portions higher than 4 % resurface drying.</li> <li>Hardener portions less than 1 % and considerably delay hardening.</li> <li>The bonding layers should be as thir shrinkage (approx. 5-8 %) caused by development of heat during the harder.</li> <li>Non-durable resistance of bondings humidity and frost.</li> </ul>   | lardener portions less than 1 % and low temperatures (below 5°C)<br>onsiderably delay hardening.<br>The bonding layers should be as thin as possible (< 1 mm) due to<br>hrinkage (approx. 5-8 %) caused by the high reactivity of the filler and<br>evelopment of heat during the hardening process.<br>lon-durable resistance of bondings which are frequently exposed to<br>umidity and frost.<br>Only moderate adhesion on fresh, alkaline building materials (e.g.<br>oncrete, concrete bricks). |  |  |



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|                   | <ul> <li>Once hardened, the filler can no longer be removed by solvents.<br/>Removal is only possible mechanically or by higher temperatures<br/>(&gt; 200°C).</li> </ul>   |  |   |   |  |
|-------------------|---|--|---|---|--|
| Technical Data:   | Colour:<br>Density:   | honey yellow<br>1.05 – 1.15 g/cm³                        |   |   |  |
|                   | Working time (min.):  |  |   |   |  |
|                   | a) at 20°C<br>1% of hardener:<br>2% of hardener:<br>3% of hardener:<br>4% of hardener:  | <u>Transparent</u><br>12 - 14<br>6 - 8<br>5 - 6<br>4 - 5 | Extra Liquid<br>9 - 11<br>7 - 9<br>5 - 6<br>4 - 5 | <u>L-Special</u><br>8 - 10<br>5 - 6<br>4 - 5<br>3 - 4 |  |
|                   | b) with 2% of hardener:<br>at 10°C:<br>at 20°C:<br>at 30°C:   | 13 - 16<br>6 - 8<br>4 - 5                                | 12 - 14<br>7 - 9<br>4 - 5                         | 12 - 14<br>5 - 6<br>3 - 4                             |  |
|                   | Mechanical Properties:<br>Tensile strength DIN 53455: 40 - 50 N/mm <sup>2</sup><br>Bending strength DIN 53452: 100 - 110 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. |  |   |   |  |

a sample piece.