

Technical Data Sheet

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- Properties:** AKEPOX® 1016 Micro Filler is a very fluid two-component epoxy resin system with a modified amine hardener. The product is characterized by the following properties:
- very liquid consistency, therefore good penetration into finest hair cracks
 - solvent-free, therefore good filling properties
 - high efficiency
 - very strong colour intensification
 - slow working time
 - low tendency to yellowing
 - low odour
- Application Area:** AKEPOX® 1016 Micro Filler is mainly used in the stone-working industry for closing of fine fissures and hair cracks as well as for surface compacting on natural stones, concrete and concrete ashlar. Due to the strong colour intensification the natural colour of the stone is intensified.
- Instructions for Use:**
1. The stone slabs which are to be treated must be pre-calibrated according to their nominal thickness and must be clean and dry.
 2. If the surface of the stone is pre-warmed (60°C to 70°C), the penetrative capacity and colour intensification will be increased considerably.
 3. Three parts of Component A are to be thoroughly mixed with one part of Component B (e.g. 75 g and 25 g by volume or weight).
 4. Colouring is possible using AKEPOX Stone Ink (max. 5%).
 5. The mixture remains workable for approx. 1 – 2 hours at 20°C and is applied to the whole surface with a brush or roller; apply more than once on more absorbent surfaces..
 6. The surfaces can be ground and polished after approx. 1 day at room temperature.
 7. The contact pressure of the grinding and polishing segments should be 1 to 1.5 bar at the most.
 8. Tools can be cleaned with AKEMI® Universal Dilution.
 9. Warmth accelerates and cold retards the hardening process.
 10. Empty the container fully before disposing of it.
- Special Notes:**
- The optimal mechanical and chemical properties can only be attained by adhering to the exact mixing proportions; excess adhesive or hardener has the effect of a plasticizer.
 - Use separate vessels when component A and B are being extracted from their containers.
 - Upon exceeding of the working time the penetrative capacity will be reduced.
 - Treated surfaces obtain, depending on the kind of stone, a more or less intensive colour intensification; where appropriate the intensification may be stronger in the area of the fissures. We recommend to make a sample area first.
 - The best surfaces can only be achieved by using high-quality grinding and polishing segments.
 - The product is not to be used at temperatures below 15°C because it will not sufficiently harden.
 - The hardened resin can no longer be removed by means of solvents. This can only be achieved mechanically or by applying higher temperatures (> 200°C).

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- If the resin has been correctly worked it presents no hazard to health when the hardening process is completed.

Technical Data:

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| Colour (component A + B): | colourless transparent |
| Density: | comp. A: 1.07 g/cm ³ comp. B: 0.96 g/cm ³ |
| Consumption: | approx. 100 – 200 g/m ² |
| Working time: | |
| a) at varying temperatures and a quantity of 100 g: | 15°C: 2 – 4 hours 20°C: 1 – 2 hours 40°C: 0.5 – 1 hour |
| Hardening times for stone slabs which have been pre-warmed to the given temperatures: | 20°C: 18 - 24 hours 40°C: 4 - 8 hours |
| Surface is tack-free in thin layer: | 20°C: approx. 3 hours 40°C: approx. 1.5 hours 60°C: approx. 1.5 hours |

Storage:

2 years approx. under cool conditions in the firmly closed original container.

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

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