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Technical Data Sheet

Properties: AKEPOX[®] 1005 is a very fluid, 2-component, epoxy resin system with a modified amine hardener which is used for firmly closing cracks and pores. The product is characterized by the following properties: hardens relatively guickly has highly penetrative properties on account of its low viscosity clear transparent, best suitable for light natural stone free of solvents weather-resistant excellent grinding and polishing properties increases the firmness and improves the quality of natural stone surfaces increases the yield and the productivity when properly applied, the hardened product is classified as harmless to health for bondings of natural and artificial stone upon contact with food AKEPOX® 1005 is mainly used in the stone processing industry for **Application Area:** strengthening porous and fissured natural stone slabs, concrete and concrete ashlar and improving their surface qualities. In combination with spun glass fabrics it is also used for strengthening brittle natural stone slabs. The hardened product shows a minimal tendency to yellow if exposed to ultraviolet light or to warmth. 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 of the product will be increased considerably. 3. Four parts by weight of Component A are to be thoroughly mixed with one part by weight of Component B (e.g. 100 g and 25 g) until the mixture is free of streaks. Alternatively, seven parts by volume of Component A are to be mixed with two parts by volume of Component B (e.g. 175 ml and 50 ml); large amounts can be worked more easily with a dosing and mixing apparatus for AKEPOX[®] products. 4. AKEPOX® Colouring Concentrates or Stone Ink can be used for colouring if required (max. 5%). 5. The mixture remains workable for approx. 20 - 30 minutes at 20°C and is applied to the complete surface with a fine-toothed spreader; apply more than once in the event of larger fissures or areas of greater absorption. Cracks which are running completely through the stone are to be closed on the back before application of AKEPOX® 1005. 6. The surfaces can be ground and polished after approx. 24 hours at room temperature. Pre-warmed natural stone slabs can be polished and grind after approx. 3 hours at 60°C and subsequent cooling. 7. The contact pressure of the grinding and polishing segments should be 1 to 1.5 bar at the most. Tools can be cleaned with AKEMI® Universal Thinner. 8. 9. Warmth accelerates and cold retards the hardening process.

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Special Notes:	 For professional use only. The optimal mechanical and chemi attained by adhering to the exact m adhesive or hardener has the effect discolouration in the marginal zone The colour of the treated surfaces r lesser extent depending upon the ty deepening of colour may be more r Therefore, we recommend to test o Use separate vessels when removi storage containers. The resin is no longer to be used if jellying. The best surfaces can only be achi grinding and polishing segments. The product is not to be used at ter it will not sufficiently harden. The hardened resin can no longer to solvents. This can only be achieved higher temperatures (> 200°C). For proper waste disposal the conta emptied. Recycling in accordance with the gy EC on the Packaging Directive 94/6 	ixing proportions; excess t of a plasticizer or may cause s. may deepen to a greater or ype of stone involved; a noticeable in the fissured area. n a sample area. ng component A and B from the it has already thickened or is eved by using high-quality nperatures below 15°C because be removed by means of d mechanically or by applying ainer must be completely uidelines of EU Decision 97/129
Technical Data:	 Colour: Density: Consumption: Working time: a) at varying temperatures and a quantity of 125 g: b) at 20°C and varying amounts: b) at 20°C and varying amounts: Hardening times for stone slabs which have been pre-warmed to the given temperatures: Mechanical properties: Bending strength: Tensile strength: 	light transparent comp. A: 1.13 g/cm ³ comp. B: 1.00 g/cm ³ approx. 100 - 200 g/m ² 15°C: 30 - 35 minutes 20°C: 20 - 25 minutes 30°C: 5 - 10 minutes 40°C: 3 - 5 minutes 125 g: 25 - 30 minutes 125 g: 20 - 25 minutes 1250 g: 15 - 20 minutes 20°C: 24 hours 30°C: 12 hours 40°C: 6 hours 50°C: 4 hours 60 - 70 N/mm ² 35 - 40 N/mm ²
Storage:	If stored in dry and cool condition (5-25°C/41-77°F) in its closed original container at least 24 months from production.	
Health & Safety:	Read Safety Data Sheet before handling or using this product.	



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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.