

## **Technical Data Sheet**

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Properties:	AKEPOX <sup>®</sup> 5010 Coloured is a gel-like, solvent-free, 2-component adhesive based on an epoxy resin containing a cycloaliphatic polyamine hardener.	
	<ul> <li>The product is characterized by the following properties:</li> <li>huge variety of colours</li> <li>very low tendency to yellow</li> <li>easy dosing and mixing by use of cartridge system</li> <li>high creeping strength due to gel-like consistency</li> <li>very low shrinkage during the hardening process and therefore low tensions in the bonding layer</li> <li>very good weather-resistant bondings</li> <li>good temperature stability: from -20°C up to 60 - 70°C for bondings exposed to weight, approx. 100 - 110°C for bondings not exposed to weight</li> <li>good dimensional stability of the bonding layer</li> <li>low tendency to fatigue</li> <li>very good alkali-stability, thus the adhesive is very well suited to</li> </ul>	
	<ul> <li>very good and in ordenity, thus the danesive is very wen outed to bond concrete</li> <li>excellently suited for bonding gas-impermeable materials as it is a</li> <li>solvent-free product</li> <li>good electrical insulating property</li> <li>good adhesion on slightly humid stones</li> <li>suited for bonding materials which are sensitive to solvents (e.g.</li> <li>expanded polystyrene, ABS)</li> <li>when properly applied, the hardened product is classified as harmless to health for bondings of natural and artificial stone upon contact with food</li> <li>emission class A+ (confirmed by an external testing institute)</li> </ul>	
Application Area:	AKEPOX <sup>®</sup> 5010 Coloured is mainly used in the stone-working industry for colour adjusted bondings of natural stone (marble, granite), Techno Ceramics as well as artificial stone or building materials (terrazzo, concrete) in the visual range. Because of its supple, gel-like consistency the product has a high creeping strength on vertical surfaces. It is nevertheless possible to attain thin adhesive joints. Other materials can also be glued with AKEPOX <sup>®</sup> 5010 Coloured, e.g. plastics (hard PVC, polyester, polystyrene, ABS, polycarbonates), paper, wood, glass and many other materials. AKEPOX <sup>®</sup> 5010 Coloured is not suitable for the gluing of polyolefins (polyethylene, polypropylene), silicones, hydro- carbon fluorides (Teflon), soft PVC, soft polyurethane, butyl rubber and metal.	
Instructions for Use:	<ol> <li>Thoroughly clean and slightly roughen surfaces to be bonded.</li> <li>Remove the clasp from the cartridge and put the cartridge in the gun; work the grip until material emerges from both openings; then eventually screw up the mixing nozzle.</li> <li>Both components must be thoroughly mixed when working without mixing nozzle.</li> <li>The mixture remains workable for approx. 20 - 30 minutes (20°C). After approx. 6 - 8 hours (20°C) the bonded parts may be moved. After 12 - 16 hours (20°C) approx. they may be further processed. Maximal stability after 7 days (20°C).</li> <li>Tools can be cleaned with AKEMI<sup>®</sup> Nitro-Dilution.</li> <li>The hardening process is accelerated by heat and delayed by cold.</li> </ol>	



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Special Notes:	<ul> <li>For professional use only.</li> <li>Suitable for bonding of load-bearing the relevant standards such as DIN 2304 must be observed during app</li> <li>Only if the right mixing ratio is kept, chemical properties can be obtaine hardener has the effect of a softener in the marginal zone.</li> <li>An adhesive is no longer to be used jellying.</li> <li>The product is not to be used at terr it will not sufficiently harden.</li> <li>At constant temperatures above 50 to yellowing.</li> <li>The hardened adhesive can no long solvents. This can only be achieved higher temperatures (&gt; 200°C).</li> <li>The A-component slightly tends to a product can be made workable aga</li> <li>The stability of the bonding depend bonded: silicate-bound stone reacts stone.</li> <li>Recycling in accordance with the gi EC on the Packaging Directive 94/6</li> </ul>	18516 part 1 and part 3 or DIN lication. optimal mechanical and d. A surplus of adhesive or er and can cause discolouration d if it has already thickened or is nperatures below 10°C because °C the hardened adhesive tends ger be removed by means of d mechanically or by applying crystallize (honey effect). The in by warming it up. s on the natural stone to be s better than carbonate-bound uidelines of EU Decision 97/129 52/EC.
Technical Data:	1. Colour (A and B):	transparent CC 2200, white CC 1130+1100, cream CC 1670, grey CC 1830+1880, black CC 1000+1020, beige CC 1720+1735, khaki CC 1920, brown CC 2060
	2. Density (A and B):	approx. 1.16 g/cm³
	3. Working time:	
	mixture of 100 g component A + 50 g of component B:	at 10°C: 60 - 70 minutes at 20°C: 20 - 30 minutes at 30°C: 15 - 20 minutes at 40°C: 5 - 10 minutes
	4. Mechanical properties:	
	Bending strength DIN 53452: Tensile strength DIN 53455:	60 - 70 N/mm² 30 - 40 N/mm²
	<ul> <li>5. Chemical Resistance Water absorption: Sodium Chloride Solution 10%: Salt water: Ammonium 10%: Soda lye 10%: Hydrochloric acid 10%: Acetic acid 10%: Formic acid 10%: Petrol: Diesel oil: Lubricating oil:</li> </ul>	< 0.5 % stable stable stable stable conditionally stable conditionally stable stable stable stable



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	6. Hardening process (Shore D hardness) of a 2 mm layer at 20°C:		
	<u>4 h 5 h 6 h 7 h 8 h 24 h 7 d</u> 44 67 74 76 82 83		
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.		
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.		