AKEMI[®]

Technical Instruction Sheet

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Characteristics:	AKEPOX [®] 2030 is a creamy, solvent-free 2-component adhesive based on an epoxy resin containing fillers and a modified polyamine hardener. The product is distinguished by the following qualities:					
	 relatively rapid hardening easy colouring with AKEPOX[®] Colouring Pastes (only with colour green-grey) easy measuring and mixing when using the cartridge system extremely low shrinkage during the hardening process and therefore low tensions in the bonding layer extremely weather-resistant bondings a good thermal stability: approx. 60-70°C for bonded parts exposed to weight, approx. 100-110°C for bonded parts not exposed to weight a good dimensional stability of the bonding layer a small tendency to fatigue a very good alkali-stability, thus the adhesive is very well suited to bond concrete. excellently suited for bonding gas-impermeable materials as it is a solvent-free product suited for bonding load-bearing construction parts good adhesion on slightly humid stones suited for bonding materials which are sensitive to solvents (e.g. expanded polystyrene, ABS) the product is not liable to crystallize, therefore no problems in storing and processing. 					
Field of Application:	AKEPOX [®] 2030 is mainly applied in the stone processing industry for bonding natural stones (marble, granite) and cast stones or building material (terrazzo, concrete), iron, steel or aluminium. Due to its creamy consistency the product has a good vertical stability. In addition, surfaces which are relatively uneven can be connected or slabs and railings can be anchored. Other materials e.g. various plastics (rigid PVC, polyester, polystyrene, ABS, polycarbonate), paper, wood and glass can be bonded. Metal parts coated with AKEPOX [®] 2030 are very well protected against corrosion. Materials e.g. polyolefine (polyethylene, polypropylen), silicone, fluorohydrocarbons (teflon), flexible PVC and butyl rubber cannot be bonded with AKEPOX [®] 2030.					
Instructions for Use:	 A. Cartridge System without mixing nozzle: dosing apparatus only with mixing nozzle: dosing and mixing apparatus at the same time 1. Thoroughly clean and slightly roughen surfaces to be bonded. 2. 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. 3. AKEPOX[®] Colouring Pastes can be added up to max. 5 %. 4. Both components must be thoroughly mixed when working without mixing nozzle. 5. The mixture remains workable for approx. 20-30 min (20°C). After 3-5 hours (20°C) the bonded parts may be moved, after 8-10 hours (20°C) approx. they may be further processed. Max. stability after 7 days (20°C). 6. Tools can be cleaned with AKEMI Nitro-Dilution. 7. The hardening process is accelerated by heat and delayed by cold. 8. If stored in cool place, approx. shelf life is 1 year.					

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	B. Product in cans								
	 Thorow weight AKEP AKEP The m (20°C) may be Tools The hat 	ughly mix) of hard OX [®] Colc ixture rei the bond e further can be cl ardening	4 2 parts ener un puring P mains w ded part process leaned v process	slightly rough (volume or v astes can be orkable for a s may be mo sed. Max. sta with AKEMI N s is accelerat approx. shell	weight) o neous sh added u approx. 2 oved, afte bility afte Nitro-Dilu red by he	of adhesi ade of c p to may 0-30 min er 8-10 h er 7 days tion. at and d	ve with 7 olour is a x. 5 %. n (20°C). ours (20 c (20°C).	1 part (achieve After 3 0°C) ap	ed. 3-5 hours prox. they
Special Hints:	 Metallic surfaces should be ground in a short interval before bonding to avoid a decrease in adhesion. Only if the right mixing ratio is kept, optimal mechanical and chemical properties can be obtained. A surplus of adhesive or hardener has the effect of a softener. Use AKEMI Liquid Glove to protect your hands. Two separate spatulas should be used for the adhesive and the hardener. An adhesive which is already thickened or just gelling should not be used anymore. At temperatures below 10°C the product should not be used anymore as there is no sufficient hardening. The hardened adhesive is liable to yellowing when exposed to sunlight and is therefore not suited for fillings or visibly bonded joints on light-coloured or white surfaces. Once hardened, the adhesive can no longer be removed by solvents. Removal is only possible mechanically or by higher temperatures (> 200°C). When worked correctly, the hardened adhesive is not damaging to health. Use the AKEMI original mixing nozzle only. 								
Safety Measures:	see E	C Safety	Data S	heet					
Technical Data:	1. Comp	onent A+	·B	Colours: Density:		light iv	grey, bri ory k. 1.52 g/		black
	 2. Working Time a) mixture of 100 g of component A + 50 g of component B at 10°C: 50 - 60 minutes at 20°C: 20 - 30 minutes at 30°C: 8 - 12 minutes at 40°C: 5 - 7 minutes b) at 20°C and different quantities 								
	20 g of component A +10 g of component B: 25 - 35 minutes50 g of component A +25 g of component B: 25 - 35 minutes100 g of component A +50 g of component B: 20 - 30 minutes300 g of component A +150 g of component B: 15 - 25 minutes								
	3. a) Hardening process (shore-D-hardness) of a 2 mm layer at 20°C								
	<u>2 hrs</u> 34	<u>3 hrs</u> 38	<u>4 hr</u> 70	<u>s 5 hrs</u> 73	<u>6 hrs</u> 76	<u>7 hrs</u> 78	<u>8 hı</u> 80		<u>24 hrs</u> 82
	b) layer of 5 mm after hardening for 2hrs at 110°C								
	<u>20°C</u> 82	<u>30°C</u> 77	<u>40°C</u> 75	50°C 60°C	<u>70°C</u>	<u>80°C</u>	<u>90°C</u>	<u>100°(</u> 52	<u>C 110°C</u>



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	4. Mechanical properties Bending strength DIN 53452: Tensile strength DIN 53455: E-module:	50 - 60 N/mm² 20 - 30 N/mm² 5500 - 6000 N/mm²				
	5. Chemical Resistance Water absorption DIN 53495 Sodium Chloride Solution 10% Salt Water Ammonia 10% Soda Lye 10% Hydrochloric acid 10% Acetic acid 10% Formic acid 10% Petrol Diesel oil Lubricating oil	0.5 % approx. stable stable stable stable conditionally stable conditionally stable stable stable stable stable				
		1 year approx. if stored in cool place free from frost in its tightly closed original container.				
Notice:	be considered as a non-binding hint a	The above information is based on the latest stage of technical progress. It is to be considered as a non-binding hint and does not release the user from a per- formance test, since application, processing and environmental influences are				

Art. No. 10601, 10602, 10612, 10613, 10563, 10603, 10604, 10564, 10600, 10565, 10605, 10566, 10614

beyond our realm of control.

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