AKEMI[®]

Technical Instruction Sheet

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Characteristics:	AKEPOX [®] 2040 is a paste-like, solvent-free 2-com an epoxy resin containing fillers and a modified po uct is distinguished by the following qualities:	nponent adhesive based on Iyamine hardener. The prod-
	 extremely low shrinkage during the hardening pro sions in the bonding layer 	ocess and therefore low ten-
	 a good thermal stability: approx. 60-70°C for bon approx. 100-110°C for bonded parts not exposed a good dimensional stability of the bonding layer a small tendency to fatigue 	ded parts exposed to weight, d to weight
	 a very good alkali-stability, thus the adhesive is v crete. excellently suited for bonding gas-impermeable r 	rery well suited to bond con- naterials as it is a solvent-free
	product - suited for bonding load-bearing construction part - good electrical insulating property	S
	 good adhesion on slightly humid stones suited for bonding materials which are sensitive t polystyrene, acrylonitrile butadiene styrene) the product is not liable to crystallise, therefore not sensitive to crystallise. 	to solvents (e.g. expanded
	processing.	
Field of Application:	AKEPOX [®] 2040 is mainly used in the stone process natural stones (marble, granite), cast stones or burrazzo) and steel. Due to its paste-like consistency vertical position and is suitable for filling holes or n addition surfaces which are relatively uneven can cade coverings or railings can be anchored. Other PVC, polyester, polystyrene, ABS, polycarbonate) be bonded. Metal parts coated with AKEPOX [®] 204 against corrosion. Materials s. a. polyolefine (polye cone, fluorohydrocarbons (teflon), flexible PVC an bonded with AKEPOX [®] 2040.	ssing industry for bonding of ilding material (concrete, ter- the product is very stable in a nodelling corners or edges. In thus be connected and fa- materials s. a. plastics (rigid , paper, wood and glass can 40 are very well protected ethylene, polypropylene), sili- d butyl rubber cannot be
Instructions for Use:	 Thoroughly clean and slightly roughen surfaces Thoroughly mix 2 parts (volume or weight) of co ume or weight) of component B until a homogen achieved 	to be bonded. Imponent A with 1 part (vol- neous shade of colour is
	 AKEPOX[®] Colouring Pastes can be added up to The mixture remains workable for approx. 45-55 (20°C) the bonded parts may be moved, after 12 may be further processed. Max stability after 7 c Tools can be cleaned with AKEMI Nitro-Dilution 	o max. 5 %. 5 min (20°C). After 6-8 hrs 2-16 hrs (20°C) approx. they days (20°C).
	6. The hardening process is accelerated by heat a7. If stored in cool place, approx. shelf life is 1 yea	nd delayed by cold. r.
Special Hints:	 Metallic surfaces should be ground in a short inter a decrease in adhesion. Only if the right mixing ratio is kent, optimal mech 	erval before bonding to avoid
	ties can be obtained. A surplus of adhesive or ha softener.	ardener has the effect of a
	 Use AKEMI Liquid Glove to protect your hands. Two separate spatulas should be used for the ha An adhesive which is already thickened or just ge anymore. 	ardener and the adhesive. elling should not be used
	- At temperatures below 10°C the product should r	not be used anymore as there

is no sufficient hardening.

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	 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. 		
Safety Measures: Technical Data:	 see EC Safety Data Sh 1. Component A Component B 2. Working Time a) mixture of 100 g of at 10°C: 110 - at 20°C: 45 - at 30°C: 20 - at 40°C: 10 - b) at 20°C and different 20 g of component 300 g of component 35. 4. Mechanical Propert Bending strength Different 20 Sodium Chloride Sci Salt Water Ammonium 10% Soda Lye 10% Hydrochloric acid 10% Formic acid 10% Formic acid 10% Formic acid 10% Petrol Diesel oil Lubricating oil 6. Shelf life: 	neet Colour: Density: Colour: Density: component A + 50 120 minutes 55 minutes 30 minutes 20 minutes 1 4 + 10 g of cont t A + 25 g of cont t A + 25 g of cont t A + 25 g of cont t A + 50 g of cont t A + 50 g of cont (shore-D-hardness 5 hrs <u>6 hrs</u> 38 55 ies IN 53452: 4 N 53455: 2 850 ce IN 53495 olution 10% 0%	grey-white approx. 1.71 g/cm ³ khaki-grey approx. 1.72 g/cm ³ g of component B nponent B: 60 - 70 min nponent B: 50 - 60 min nponent B: 45 - 55 min nponent B: 40 - 50 min s) of a 2 mm layer at 20°C $\frac{7 \text{ hrs}}{66}$ $\frac{8 \text{ hrs}}{73}$ $\frac{24 \text{ hrs}}{80}$ $0 - 50 \text{ N/mm}^2$ $0 - 30 \text{ N/mm}^2$ $0 - 30 \text{ N/mm}^2$ $0 - 9000 \text{ N/mm}^2$ > 0.5 % stable
Notice:	The above information is based on the latest stage of our 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.		