AKEMI[®]

Technical Instruction Chest

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Characteristics:	AKEPOX [®] 2040 is a paste-like, solvent-free 2-component ac an epoxy resin containing fillers and a modified polyamine ha uct is distinguished by the following qualities:	
	 extremely low shrinkage during the hardening process and sions in the bonding layer extremely weather resistant bandings 	therefore low ten-
	 a good thermal stability: approx. 60-70°C for bonded parts 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 succete. 	uited to bond con-
	 excellently suited for bonding gas-impermeable materials a product 	s it is a solvent-free
	 suited for bonding load-bearing construction parts good electrical insulating property good adhesion on slightly humid stones 	
	 suited for bonding materials which are sensitive to solvents polystyrene, acrylonitrile butadiene styrene) 	
	 the product is not liable to crystallise, therefore no problem processing. 	s in storing and
Field of Application:	AKEPOX [®] 2040 is mainly used in the stone processing industivatival stones (marble, granite), cast stones or building materiazzo) and steel. Due to its paste-like consistency the product vertical position and is suitable for filling holes or modelling or addition surfaces which are relatively uneven can thus be concade coverings or railings can be anchored. Other materials PVC, polyester, polystyrene, ABS, polycarbonate), paper, we be bonded. Metal parts coated with AKEPOX [®] 2040 are very against corrosion. Materials s. a. polyolefine (polyethylene, p cone, fluorohydrocarbons (teflon), flexible PVC and butyl rub bonded with AKEPOX [®] 2040.	erial (concrete, ter- ct is very stable in a corners or edges. In onnected and fa- s. a. plastics (rigid cod and glass can / well protected polypropylene), sili-
Instructions for Use:	 Thoroughly clean and slightly roughen surfaces to be bon Thoroughly mix 2 parts (volume or weight) of component a ume or weight) of component B until a homogeneous shad achieved. 	A with 1 part (vol-
	 AKEPOX[®] Colouring Pastes can be added up to max. 5 % The mixture remains workable for approx. 45-55 min (20°) (20°C) the bonded parts may be moved, after 12-16 hrs (2 may be further processed. Max stability after 7 days (20°C) Tools can be cleaned with AKEMI Nitro-Dilution. 	C). After 6-8 hrs 20°C) approx. they
	 6. The hardening process is accelerated by heat and delaye 7. If stored in cool place, approx. shelf life is 1 year. 	d by cold.
Special Hints:	 Metallic surfaces should be ground in a short interval befor a decrease in adhesion. Only if the right mixing ratio is kept, optimal mechanical and ties can be obtained. A surplus of adhesive or hardener ha 	d chemical proper-
	 softener. Use AKEMI Liquid Glove to protect your hands. Two separate spatulas should be used for the hardener an An adhesive which is already thickened or just gelling shou anymore. At temperatures below 10°C the product should not be use 	ld not be used

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:	see EC Safety Data Sheet		
Technical Data:	1. Component AColour:grey-whiteDensity:approx. 1.71 g/cm³Component BColour:Khaki-greyDensity:approx. 1.72 g/cm³		
	 2. Working Time a) mixture of 100 g of component A + 50 g of component B at 10°C: 110 - 120 minutes at 20°C: 45 - 55 minutes at 30°C: 20 - 30 minutes at 40°C: 10 - 20 minutes 		
	 b) at 20°C and different quantities 20 g of component A + 10 g of component B:60 - 70 min 50 g of component A + 25 g of component B:50 - 60 min 100 g of component A + 50 g of component B:45 - 55 min 300 g of component A + 150 g of component B:40 - 50 min 		
	3. Hardening process (shore-D-hardness) of a 2 mm layer at 20°C <u>3 hrs</u> <u>4 hrs</u> 5 hrs <u>6 hrs</u> <u>7 hrs</u> <u>8 hrs</u> <u>24 hrs</u> 35 38 55 66 73 80		
	4. Mechanical Properties Bending strength DIN 53452: 40 - 50 N/mm ² Tensile strength DIN 53455: 20 - 30 N/mm ² E-module: 8500 - 9000 N/mm ²		
	5. Chemical Resistance Water absorption DIN 53495 > 0.5 % Sodium Chloride Solution 10% stable Salt Water stable Ammonium 10% stable Soda Lye 10% stable Hydrochloric acid 10% stable Acetic acid 10% conditionally stable Formic acid 10% conditionally stable Petrol stable Diesel oil stable Lubricating oil stable		
	6. Shelf life: 1 year approx. if stored in cool place free from frost in its tightly closed original container.		
Notice:	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		
	beyond our realm of control.		

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