

Technical Data Sheet

Page 1 of 3

Properties:	AKENOVA [®] ELASTIC 100 is a stress-compensating 1-component adhesive based on polyhybrid technology which hardens by humidity.		
	 The product is characterized by the following properties: very high initial adhesion vertical and horizontal bonding high bonding strength elastic bonding joint no bleeding in the marginal zone on natural stone, as it is free of plasticisers and solvents good workability good smoothability almost no odour VOC-free silicone-free free of isocyanate and tin temperature resistant from -25°C up to +80°C (short-term 120°C) resistant to UV, humidity and weathering suitable for indoors and outdoors paintable very low emission (GEV EMICODE® EC1^{PLUS}) emission class A+ (confirmed by an external testing institute) 		
Application Area:	AKENOVA® ELASTIC 100 is an innovative adhesive which is excellently suitable for stress-compensating, non-polishable bondings of natural and artificial stone such as granite, quartzite, sandstone, terrazzo and the like with mineral, metallic or wooden surfaces (e.g. bonding of natural stone slabs or tiles). It particularly facilitates the bonding of larger components due to its high initial strength (e.g. assembly of mirrors etc.). After hardening the product has a very good adhesion on silicate surfaces (e.g. granite, concrete, glass). For non-silicate surfaces and for bondings exposed to humidity, it is necessary to apply a primer (see primer table).		
Instructions for Use:	 Contact surfaces must be clean, free of grease and dust. For natural and artificial stone, tiles, ceramics, glass, non-painted wood and metal use AKEMI[®] Cleaner A; for plastics and painted surfaces use AKEMI[®] Cleaner. Working temperature +5°C up to +35°C. On larger surfaces the adhesive beads are applied parallel to each other in the required thickness. The distance of the beads should be chosen in such a way that no continuous layer is formed after grouting, otherwise hardening is greatly delayed. Parts should be bonded within 15 minutes, smoothen joints with AKEMI[®] Smoothing Agent. Skin formation time 15 to 25 minutes. It depends on atmospheric humidity, moisture content of bonded parts, ambient temperature and temperature of the components. Complete hardening also depends on the layer thickness: 2.5 to 3 mm on the 1st day. 		



Technical Data Sheet

Page 2 of 3

AP 20

TDS 04.23

w/o primer

Special Notes:	 delayed. In the case of the tight materials (e.g. metals bonding where there is on attack, the bonding surfals bonding. Otherwise, curiticate several weeks. 6. Tools can be cleaned with a polication. Before application, ensure materials to be bonded at damage will occur. This at of influence of the reaction. If other products (e.g. secleaners) are used in the AKENOVA® ELASTIC 10 or damage may occur to No or only limited adhesis in this case a preliminary. Hardening can be improve the bonding surface. Hardened sealant can or hardened sealant can be depending on the surface. For proper waste disposite emptied. 	Tools can be cleaned with AKEMI® Cleaner A or I. Only for professional use. Professional equipment with a high gear ratio should be used for the application. Before application, ensure that the product is compatible with the materials to be bonded and that no alteration (e.g. discolouration) or damage will occur. This also includes materials that are in the area of influence of the reaction products (vapours). If other products (e.g. sealants, colours, paints, adhesives, cleaners) are used in the area of influence after application of AKENOVA® ELASTIC 100, it must also be ensured that no changes or damage may occur to AKENOVA® ELASTIC 100. No or only limited adhesion on plasticised plastics, PE, PP, PTFE; in this case a preliminary test is necessary. Hardening can be improved by moistening parts to be bonded. Exposure to temperatures above 80°C may cause discolouration of the bonding surface. Hardened sealant can only be removed mechanically, not yet hardened sealant can be removed with AKEMI® Cleaner A or I, depending on the surface. For proper waste disposal, the container must be completely			
Primer table:	not being under permanent wet conditions. If the bonding is exposed to moisture, especially on absorbent substrates, prior treatment with a suitable primer is mandatory.				
		Recommendation AKEMI®			
	Surface	Without	With moisture		
	Ciliante etens (s. s.	moisture load	load		
	Silicate stone (e.g. granite, sandstone),	w/o primor	w/o primor		
	ceramics (e.g. Dekton [®]),	w/o primer	w/o primer		
	glass, tile, fine stoneware				
	Limestone	w/o primer	AP 10		
	Marble	w/o primer	AP 70		
	Concrete	w/o primer	AP 70		
	Quartz	w/o primer	AP 10		
	Solid Surface	w/o primer	AP 30		
	Plexiglass	w/o primer	AP 30		
	Bare iron	w/o primer	AP 20		
	Galvanised iron	w/o primer	AP 20		
	Bare aluminium	w/o primer	AP 20		
		w/o primer	AP 20		

Anodised aluminium



Technical Data Sheet

Page 3 of 3

	Brass	w/o primer	AP 20	
	Stainless steel	w/o primer	AP 20	
Technical Data:	Colours:		white (CC1130), grey (CC1830), black (CC1030), beige (CC1720)	
	Consistency:	`	paste like	
	Density (20°C):	approx. 1.4 g	approx. 1.4 g/cm³	
	Skin formation time:	15 - 25 min		
	Final hardness			
	(DIN EN ISO 868:2003): Hardening	approx. 64 SI	hore A	
	(20°C, 50% Rel. air humidity) Tensile strength			
	(DIN EN ISO 527-3 type 5): Elongation at break	3.5 - 4.0 N/m	m² (508 - 580 psi)	
	(DIN EN ISO 527-3 type 5):	180 - 200%		
	Shrinkage:	2.5 - 3.0%		
	Initial strength:	approx. 200 k	kg/m²	
Storage:	If stored in dry and cool condition (5-25°C/41-77°F) in its closed original container at least 18 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.			