

Technical Data Sheet

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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 very high bonding strength elastic bonding joint for higher stress equalisation 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) as well as on SPC (Stone Polymer Composite). 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 thicknesse: 2.5 to 3 mm on the 1st day. Attention: with high film thicknesses, curing may be considerably delayed. In the case of thin bonding joints or when bonding vapour- tight materials (e.g. metal, ceramics, glass), or in the case of bonding where there is only a small surface for air humidity to attack, the bonding surfaces should be moistened shortly before



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bonding. Otherwise, curing to the core is greatly delayed and can take several weeks.

6. Tools can be cleaned with AKEMI® Cleaner A or I.

Special Notes: Primer table:	 Professional equipment with application. Before application, ensure materials to be bonded a damage will occur. This a of influence of the reaction of the reaction of the products (e.g. set cleaners) are used in the AKENOVA® ELASTIC 100 or damage may occur to No or only limited adhesi in this case a preliminary Hardening can be improved the bonding surface. Hardened sealant can or hardened sealant can be depending on the surface. Hardening in accordance EC on the Packaging Dir 	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		
		Recommendation AKEMI [®] Primer		
	Surface	Without	With moisture	
		moisture load	load	
	Silicate stone (e.g. granite, sandstone),	w/o primer	w/o primer	
	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	
	Anodised aluminium	w/o primer	AP 20	
	Brass	w/o primer	AP 20	
	Stainless steel	w/o primer	AP 20	

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Colours:

white (CC1130), grey (CC1830), black (CC1030), beige (CC1720) TDS 07.24

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	Consistency: Density (20°C): Skin formation time:	paste like approx. 1.4 g/cm³ 15 - 25 min	
	Final hardness (DIN EN ISO 868:2003): Hardening	approx. 64 Shore A	
	(20°C, 50% Rel. air humidity): Tensile strength	approx. 3 mm after 24 hrs	
	(DIN EN ISO 527-3 type 5): Elongation at break	3.5 - 4.0 N/mm² (508 - 580 psi)	
	(DIN EN ISO 527-3 type 5):	180 - 200%	
	Shrinkage:	2.5 - 3.0%	
	Initial strength:	approx. 400 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.

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