

Technical Data Sheet

Page 1 of 3

Properties:	AKENOVA [®] CLEAR 300 is a stress-compensating, crystal-clear 1- component adhesive based on polyhybrid technology which hardens by		
	 humidity. The product is characterized by the following properties: vertical and horizontal bonding very high bonding strength highly elastic bonding joint for high tension compensation no bleeding in the marginal zone on natural stone, as it is free of plasticisers and solvents crystal-clear bondings good workability good smoothability almost no odour VOC-free silicone-and isocyanate-free temperature resistant from -25°C up to +80°C resistant to UV, humidity and weathering suitable for indoors and outdoors 		
Application Area:	AKENOVA [®] CLEAR 300 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, certain metallic or wooden surfaces (e.g. bonding of natural stone slabs or tiles). 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 10 minutes, smoothen joints with AKEMI® Smoothing Agent. Make sure that no smoothing agent remains on the joints after grouting. Skin formation time 10 to 15 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: approx. 2 mm on the 1st day. Attention: with high film thicknesses, hardening 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 bonding. Otherwise, curing to the core is greatly delayed and can take several weeks. Tools can be cleaned with AKEMI® Cleaner A or I. 		



Technical Data Sheet

Page 2 of 3

			1 490 2 01 0		
Special Notes: Primer table:	 Professional equipment the application. Before application, ensu materials to be bonded a damage will occur. This of influence of the reaction of influence of the reaction of influence of the reaction attended and the second of the reaction of the products (e.g. second of the reaction AKENOVA® CLEAR 300 or damage may occur to No or only limited adhess in this case a preliminary Hardening can be improving the bonding surface. Hardened sealant can on hardened sealant can on hardened sealant can on hardened sealant can be depending on the surfact For proper waste dispose emptied. Recycling in accordance EC on the Packaging Diministration in general, the product show not being under permanent of carried out under laboratory real-life applications. A prime achieve improved adhesion their own adhesion tests for 	 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® CLEAR 300, it must also be ensured that no changes or damage may occur to AKENOVA® CLEAR 300. 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 			
	suitable primer is mandatory				
		Recommendation AKEMI [®] Primer			
	Surface	Without moisture load	With		
	Gunace	Without moisture load	moisture load		
	Silicate stone (e.g. granite, sandstone), ceramics (e.g. Dekton [®]), glass, tile, fine stoneware	w/o primer	w/o primer		
	Limestone	Recommendation*: AP 10	AP 10		
	Carrara	Recommendation*: AP 70	AP 70		
	Thassos	Recommendation*: AP 70	AP 70		
	Quartz	w/o primer	AP 10		
	Blaustein	Recommendation*: AP 70	AP 70		
	Solid Surface	Recommendation*: AP 30	AP 30		
	Plexiglass	Recommendation*: AP 30	AP 30		
	Hard PVC	Recommendation*: AP 30	AP 30		
	Soft PVC	Recommendation*: AP 30	AP 30		
	PET-A	Recommendation*: AP 30	AP 30		
	GRP polyester	w/o primer	AP 30		
	ABS	Recommendation*: AP 30	AP 30		

w/o primer

AP 30 TDS 01.25

GRP epoxy



Technical Data Sheet

Page 3 of 3

	Polycarbonate	w/o primer	AP 30		
	Bare iron	w/o primer	AP 20		
	Galvanised iron	w/o primer	AP 20		
	Bare aluminium	Recommendation*: AP 20	AP 20		
	Anodised aluminium	w/o primer	AP 20		
	Brass	Recommendation*: AP 20	AP 20		
	Stainless steel	w/o primer	AP 20		
	Copper	w/o primer	AP 20		
	*A primer is needed to imp		AF 20		
	A primer is needed to imp	ove auriesion.			
Technical Data:	Colour:	crystal clear (CC 22	200)		
Foomiour Data:	Consistency:	paste-like			
	Density (20°C):	approx. 1.1 g/cm ³			
	Skin formation time:	10 - 15 min			
	Final hardness				
	(DIN EN ISO 868:2003):	approx. 50 Shore A			
	Hardening				
	(20°C, 50% Rel. air humidity)	approx. 2 mm after	24 hrs		
	Tensile strength				
	(DIN EN ISO 527-3 type 5):	4.5 - 5.0 N/mm² (65	3 - 725 psi)		
	Elongation at break				
	(DIN EN ISO 527-3 type 5):	430 - 450%			
	Shrinkage:	3.5 - 4.0%			
	Initial strength:	approx. 80 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.				
luce autout Nation.	The charge information is here	ad an the latest stars of d	avalanmant and		
Important Notice:	The above information is bas application technology. Due				
	factors, this information – as v				
	– 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.				
	F				