Page 1 of 3

## **Technical Data Sheet**

Properties:	AKEMI <sup>®</sup> Stone Silicone is a 1-component joint-sealing material based on silicone rubber which hardens in contact with atmospheric moisture.		
	<ul> <li>The product is characterized by the following properties:</li> <li>guaranteed no discolouration in the contact area (ISO 16938)</li> <li>rational processing and smoothing properties</li> <li>mould-inhibiting properties</li> <li>practical movement absorption 25%</li> <li>skin formation time approx. 15 minutes</li> <li>temperature resistant from -40°C to +180°C</li> <li>resistant to water stress, UV- and weathering influences</li> <li>high resistance to abrasion, tearing and notching</li> <li>very low emission (GEV EMICODE<sup>®</sup> EC1<sup>PLUS</sup>)</li> <li>odourless and physiologically harmless after hardening</li> <li>colours also available in matt design</li> <li>emission class A+ (confirmed by an external testing institute)</li> </ul>		
Application Area:	AKEMI <sup>®</sup> Stone Silicone is a special joint-sealing material for expansion and connecting joints on natural and artificial stone which is sensitive to discolouration, e.g. marble, granite, quartzite, sandstone, limestone, terrazzo, concrete and the like. The product also has a very good adhesion on plaster, ceramics, glass, wood, many metals and plastics.		
Instructions for Use:	<ol> <li>Contact surfaces must be dry, clean, free of grease and dust. Cleaning with AKEMI® Cleaner A on natural and artificial stone, tiles, ceramics, glass, non-painted wood and metal; AKEMI® Cleaner I on plastics and painted surfaces.</li> <li>To avoid adhesion on three flanks and in case of deep joints use AKEMI back-filling cords; for humid room applications as well as in outdoor and permanent wet areas use closed-cell PE back-filling cords, otherwise use open-cell PUR back-filling cords. Joint size min. 5 x 3 mm (width x depth).</li> <li>Mask off surfaces in the area of the joint edges with AKEMI® Special Adhesive Tape.</li> <li>Working temperature +5°C up to +40°C.</li> <li>Apply product and smoothen within 15 minutes. Optimal smoothing is achieved with AKEMI® Smoothing Rubber and AKEMI® Smoothing Agent (except for mat design colours).</li> <li>Remove the masking tape used before the skin is formed in the direction of the joint.</li> <li>Hardening depends on layer thickness, temperature and relative atmospheric humidity and takes approx. 2 mm per 24 hours.</li> <li>Tools can be cleaned with AKEMI® Cleaner A.</li> </ol>		
Special Notes:	<ul> <li>For professional use only.</li> <li>Use afin<sup>®</sup> Liquid Glove to protect your hands.</li> <li>Mat-design colours must be smoothened dry in order to create the mat surface effect.</li> <li>Discolouration occurs on tar or bitumen coated surfaces as well as on elastomers such as EPDM, APTC or neoprene.</li> <li>Test the compatibility with the sealant prior to using the product on coated surfaces (e.g. paints, lacquer coats).</li> <li>To avoid staining, do not apply the primer to visible surfaces.</li> <li>Remove excess smoothing agent to avoid staining.</li> </ul>		

TDS 06.22

Page 2 of 3



	<ul> <li>and teflon.</li> <li>Sealing materials with fungicide a construction of aquariums.</li> <li>Hardened sealant can only be re sealant with AKEMI<sup>®</sup> Cleaner A,</li> <li>The hardened sealant is not dans</li> <li>Recycling in accordance with the</li> </ul>	Sealing materials with fungicide additives must not be used in the		
Technical Data:	System: Consistency ISO 7390: Specific weight EN/ISO 1183-1: Shore A hardness ISO 868: Permissible total deformation: Working temperature: Temperature resistance: Skin formation time at 23°C, 50% rel. air humidity: Hardening at 23°C, 50% rel. air humidity: Modulus/elongation stress at 100%: Reaction to fire DIN 4102:	oxime cross-linked, MEKO-free paste-like, stable 1.03 g/cm <sup>3</sup> 1.23 g/cm <sup>3</sup> (mat) approx. 35 25% + 5°C to + 40°C -40°C to +180°C approx. 15 minutes approx. 2 mm per 24 hours 0.5 N/mm <sup>2</sup> class B2		
	Consumption:Joint widthJoint depth5 mm5 mm10 mm10 mm15 mm10 mm20 mm15 mm	<u>meter per cartridge</u> 12 3 2 1		
Adhesion and compatibility:	AKEMI <sup>®</sup> Stone Silicone has a very wide adhesion spectrum. Due to variety of possible influences on the adhesion behaviour, it is never less recommended to carry out an adhesion test before using AKE Stone Silicone on surfaces with not yet known behaviour. Dependent the type and condition of the surface material as well as subseque loads (tensile and shear forces, exposure to temperature, humidity other media) it may be advisable -depending on corresponding test results- to improve the adhesion of the sealant to the surface by us cleaners and/or primers (e.g. AKEMI <sup>®</sup> Clean Primer AP 40 for non- absorbent surfaces, Primer AP 10 for porous respectively absorbe surfaces).			
	Sufficient adhesion cannot be achiev adhesion-repellent properties, such a silicone, PTFE (e.g. Teflon <sup>®</sup> ), butyl ru bitumen- or wax-containing materials AKEMI <sup>®</sup> Stone Silicone has good cor common substrates made of metals o	as polyolefins (e.g. PĚ, PP), ibber, neoprene, EPDM, tar-, a. npatibility with a wide range of		



Page 3 of 3



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	The permanent compatibility between sealant and adjacent existing materials or materials intended for later contact (e.g. coating systems) or even complete functional units (glazing systems) must be ensured before the sealant is used to avoid discolouration, loss in adhesion, migration effects or other harmful consequences. Prolonged contact with materials which release migratory components (e.g. plasticisers, bitumen) must basically be avoided. AKEMI Stone Silicone is a pure silicone. It is free of acidic or alkaline components, migratable plasticisers, extenders or solvents and thus fulfills important requirements for compatibility in contact with natural stone and other sensitive materials. Exposure to coloured or discolouring substances can lead to an optical change of the sealant. This applies in particular to substances in tobacco smoke, dyes, dirt, substances containing tar and bitumen, but also in the case of colonisation by mould.		
Storage:	If stored in dry and cool condition (5-25°C/41-77°F) in its closed original		
	container at least 12 months from production.		
Conformity/tests:	EN 15651-1 EN 15651-2 EN 15651-3 EN 15651-4 ISO 16938-1 DIN 52452-4 VOC France EMICODE <sup>®</sup> REACH	EXT-INT CC class 25 LM G CC class 25 LM S class XS1 PW EXT-INT CC class 25 LM compatibility with natural stone A1 and A2, compatible with paint <sup>1)</sup> emission class A+ EC1 <sup>PLUS</sup> – very low emission compliant with regulation (EU) No. 1907/2006	
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.		