Technical Data Sheet

Properties:

AKEMI® Sanitary Silicone is a single-component, joint sealing material on the basis of silicone rubber which hardens in contact with atmospheric moisture. The product is characterized by the following properties:

- adheres excellently to many kinds of surfaces
- has excellent working and smoothing properties
- has fungicidal properties
- effectively tolerates expansion/contraction up to 25%
- builds a skin within 10 – 15 minutes
- stable at temperatures between –40°C - +150°C
- is extremely weather-resistant
- has a high resistance against abrasion, tearing and notching
- can be supplied in all colours
- can be stored for 24 months under cool and dry conditions

Application Area:

AKEMI® Sanitary Silicone is a special sealing material for expansion and connecting joint in kitchens and wet/moist rooms (bathrooms, saunas etc.) and for the following materials: tiles, glazed ceramic, clinker, enamel, glass, painted wood and plastics.

Instructions for Use:

1. Contact surfaces must be dry and clean and free of fat and dust; tiles, ceramic, glass, clinker, enamel can be cleaned with Cleaner A; Cleaner I is to be used on plastic and enameled surfaces.
2. In order to prevent adhesion on three flanks and in the event of deeper joints AKEMI® joint cords should be used; closed-cell polyethylene (PE) joint tapes for wet/moist rooms (bathrooms, saunas etc.),for outdoors and areas exposed to permanent humidity, otherwise open-cell polyurethane (PUR) joint cords. Joint size: 3 x 5mm at the least.
3. Areas flanking the joint should be protected with AKEMI® special adhesive masking tape.
4. In wet/moist rooms and areas exposed to permanent humidity, outdoors and by particular surfaces (see primer table) we recommend the application of our primers on the flanks of the joints.
5. Working temperature –5°C - +40°C.
6. After application the silicone must be smoothed within 10 – 15 minutes. The best results are achieved with AKEMI® smoothing agent .
7. The hardening process, which is dependent upon the thickness of the layer, the temperature and the relative atmospheric humidity, takes approx. 1-3 mm per 24 hours.
8. Tools can be cleaned with AKEMI® Cleaner A.

Special Notes:

- In order to protect the hands use AKEMI® Liquid Glove.
- In the course of application/vulcanisation acetic acid is set free; these vapours should not be inhaled in high concentrations or over a long period of time; working areas are to be well-ventilated.
- Discolouration occurs if the surfaces beneath are coated with tar or bitumen, the sample applies for elastomers such as EPDM, APTC or neoprene.
- Test the compatibility with the sealant prior to using the product on coated surfaces (e.g. paints, lacquer coats).
- In order to prevent stains the primer should not come into contact with surfaces in the field of vision.

AKEMI GmbH · Lechstraße 28 · 90451 Nürnberg · Germany
Tel. +49(0)911-64296-0 · Fax +49(0)911-644456 · www.akemi.com

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- Excess smoothing agent must be removed in order to avoid staining.
- Not suitable for porous, absorbent surfaces such as natural and artificial stone; hazard of discoloration in the contact zones!
- Discoloration can occur in the event of contact with non-ferrous metals such as copper and brass.
- The silicone does not adhere or adheres poorly to plastics containing softening agents, to polyethylene (PE), polypropylene (PP) and polytetraflouroethylene (teflon).
- Sealing materials with fungicide additives are not to be used in the construction of aquariums.
- Hardened sealing can only be removed mechanically. Sealing material which is still soft can be removed with Cleaner A or I – depending on the surface beneath.
- The hardened sealing presents no danger to health.

Technical Data:

System:	acetate cross-linked
Consistency:	soft, past-like and stable
Density (DIN 53479-B) at 23°C:	approx. 1.02 g/cm³
Shore A hardness (DIN 53505):	approx. 20-23
Effective tolerance of expansion/ contraction:	25%
Working temperature:	- 5°C – + 40°C
Stable at temperatures from:	-40°C – +150°C
Time to build up skin at 23°C and 50% relative atmospheric humidity:	approx. 10 – 15 minutes
Hardening time at 23°C and 50% relative atmospheric humidity:	approx. 1 – 3 mm per 24 hrs
Modulus of elasticity:	0.4 N/mm²
Tensile strength (DIN 53504):	450% - 500%

Quantities required:

joint breadth	joint depth	meter per cartridge
5 mm	5 mm	12
10 mm	10 mm	3
15 mm	10 mm	2
20 mm	15 mm	1

Primer table:

ceramic, glazed/unglazed	+	copper	-
glass	+	brass	-
tiles	+	stainless steel	AP20
artificial stone	-	zinc	-
natural stone	-	galvanised steel	+
concrete	-	aluminium	+
brick	-	eloxadised aluminium	AP20
fibrated concrete	-	hard PVC	AP30
plaster of Paris	-	polyester	+
untreated wood	AP10	acrylic bathroom fittings	+
varnished wood	AP10	polyacrylates	-
painted wood	+	polycarbonates	-
untreated wood *1	+	ABS	+

+	adheres well
-	is not to be used
*1	test compatibility of the coating/lacquer with the sealant prior to using the product

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Storage: Can be stored for 24 months under cool and dry conditions in the original sealed container.

Health & Safety: Read Material 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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