

Technical Instruction Sheet

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Characteristics:

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

- it 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

Field of Application:

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. Contract surfaces must be dry and clean and free of fat and dust; tiles, ceramic, glass, clinker, enamel can be cleaned with Cleaner A; plastics and painted surfaces with Cleaner I.
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.) and for outdoors, otherwise open-cell polyurethane (PUR) joint cords. Joint size: 3x5mm at the least.
3. Areas flanking the joint should be protected with AKEMI® special adhesive masking tape.
4. In wet/moist rooms, outdoors and on 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 for 1-3mm 24 hours.
8. Tools can be cleaned with AKEMI® Cleaner A.

Special Hints:

- 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.
- Discoloration occurs if the surfaces beneath are coated with tar or bitumen, the sample applies for elastomers such as EPDM, APTC or neoprene.
- In order to prevent stains the primer should not come into contact with surfaces in the field of vision.
- 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 polytetrafluoroethylene (teflon).
- Sealing materials with fungicide additives are not to be used in the construction of aquariums.

- Hardened sealings 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-linking
Consistency:	soft, paste-like and stable
Density (DIN 53479-B) at 23°C:	approx. 1.02 g/cm ³
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. 1-3mm per 24 hours
Modulus of elasticity:	0.4N/mm ²
Tear expansion (DIN 53504):	450%-500%
Storage:	Can be stored for 24 months under cool and dry conditions in the original sealed container.

Quantities required:	joint breadth	joint depth	m. per cartridge
	5mm	5mm	1
	10mm	10mm	3
	15mm	10mm	2
	20mm	15mm	1

Primer table

ceramic, glazed/unglazed	+	copper	-
glass	+	brass	-
tiles	+	stainless steel	AP20
cast stone	-	zinc	-
natural stone	-	Galvanised steel	+
concrete	-	aluminium	+
brick	-	Eloxadised aluminium	AP20
fibrated concrete	-	hard PVC	AP 30
plaster of Paris	-	polyester	+
untreated wood	AP10	acrylic bathroom fittings	+
varnished wood	AP10	polyacrylates	-
painted wood	+	polycarbonates	-
formica	AP30	ABS	+

- + adheres well
- is not to be used

Safety measures:

Please refer to the EC safety data sheet

Notice:

These specifications were made in accordance with the up-to-date stage in development and application technology research of our firm. Because the ways and means of application are outside our control the manufacturer cannot be held liable for the contents of this instruction sheet.

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