Marble Silicone



Technical Instruction Sheet

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Characteristics:

AKEMI® Marble 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 does not discolour at the edges
- has excellent working and smoothing properties
- has a fungicidal property
- 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
- is compatible with paint
- can be supplied in all colours
- can be stored for 12 months under cool and dry conditions

Field of Application:

AKEMI® Marble Silicone is a special sealing material for expansion and connecting joint and can be used in combination with natural and artificial stone such as marble, granite, quartzite, sandstone, terrazzo (Venetian mosaic), concrete and the like. In addition this product adheres very well to plaster, ceramic, glass, wood and to many kinds of metal and plastic.

Instructions for Use:

- 1. Contract surfaces must be dry and clean and free of fat and dust; natural and artificial stone, ceramic, glass, non-painted wood and metal can be cleaned with Cleaner A; Cleaner I is to be used on plastic and enamelled 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.) 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 by particular surfaces (see primer table) we recommend the application of our primers on the flanks of the joints.
- 5. Working temperature –10°C +40°C.
- 6. After application the silicone must be smoothed within 10 15 minutes. The best results are achieved with AKEMI® smoothing agent.
- 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'.
- Keep out of the reach of children. Avoid contact with the eyes and the skin. In
 the event of contact rinse thoroughly with water and, if necessary, visit your
 doctor. Only use in well-ventilated areas or employ an air extractor. During
 application/vulcanisation a transient irritant is set free. If this inhaled in high
 concentrations, damage to health cannot be excluded.
- 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.
- 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.



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- 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: oxime interlaced

Consistency: soft, paste-like and stable

Density (DIN 53479-B) at 23°C: approx. 1.02 g/cm³ Shore A hardness (DIN 53505): approx. 30-35

Effective tolerance of expansion/

contraction: 25°

Working temperature: -10°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: 0.6N/mm² Tensile strength (DIN 53504): 150%-200%

Storage: Can be stored for 12 months under cool and

dry conditions in the original sealed

container.

Quantities required:	joint breadth	joint depth	m. per cartridge
·	5mm	5mm	12
	10mm	10mm	3
	15mm	10mm	2
	20mm	15mm	1

Primer table:

sandstone limestone marble granite quartzite concrete	*1 *2 *2 *2 *2 *2	AP10 + + + + AP10	copper brass stainless steel zinc galvanised steel aluminium	*3 *3	+ + + AP20 + +
plaster		AP10	eloxadised alumini	ium	AP20
brick		AP10	hard PVC		AP30
fibrated concre		AP10	polyester		+
plaster of Paris		AP10	acrylic bathroom fi		+
ceramic, glaze	d/unglazed	+	polyacrylates	*4	+
glass		+	polycarbonates	*4	+
untreated woo		+	formic		AP30
varnished/painted wood		+	ABS		+

⁺ adheres well

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.

TIS 08.98

^{*1} coat thinly with AP10 twice

^{*2} in the event of application in wet/moist rooms or outdoors use AP10

^{*3} prepare the surface with a fine sand or emery paper

^{*4} the sealing material may cause plastics under surface tension to break; test beforehand!