

Technical Data Sheet

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Properties:

AKEMI® FLEXY-ZEM is a 1-component, polymer-based joint filling material which hardens in contact with atmospheric moisture.

The product is characterized by the following properties:

- appearance of a cementary joint
- suitable for natural stone (no discolouration in the contact zone)
- effective toleration of movement 20%
- skin forming time approx. 12 minutes
- stable at temperatures from -50°C up to +150°
- can be used indoors and outdoors
- high abrasion and tear resistance as well as notch-tensile strength
- fungicidal properties
- emission class A+ (confirmed by an external testing institute)

Application Area:

AKEMI® FLEXY-ZEM is a special joint filling material for expansion and connecting joint in the field of large-size ceramics, tiles, natural and artificial stone s.a. marble, granite, quartzite, sandstone, terrazzo, concrete and the like. As the appearance is similar to a cementary joint, the product can also be used as a replacement for conventional grouts.

Instructions for Use:

- Contact surfaces must be dry and clean and free of fat and dust; Cleaning with AKEMI[®] Cleaner A on natural and artificial stone, tiles, ceramics, glass, non-painted wood and metal. AKEMI[®] Cleaner I is to be used on plastics and painted 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: 6 x 6 mm 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 up to +35°C.
- 6. Apply the product and smoothen within 5 to 10 minutes; An optimal matt effect is achieved with dry smoothing (without using a smoothing agent).
- 7. Remove the adhesive masking tape in the direction of the joint prior to skin formation.
- 8. 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.
- 9. Tools can be cleaned with AKEMI® Cleaner A.
- For professional use only.
- Use afin[®] Liquid Glove to protect your hands.
- The product should be smoothened as dry as possible to maintain the matt surface effect.
- Discolouration occurs on tar and bitumen coated surfaces as well as on elastomers s.a. EPDM, APTC or neoprene.
- Test the compatibility with the product prior to using it on coated surfaces (e.g. varnishes, paints).
- To avoid staining, do not apply primer on visible surfaces.

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approx. 1 - 3 mm per 24 h



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- Remove excess smoothing agent to avoid staining.
- No or limited adhesion on plastics containing plasticizers as well as on PE, PP and Teflon.
- Hardened product can only be removed mechanically, not yet hardened product can be removed with AKEMI® Cleaner A or I, depending on the surface.
- The hardened product is not harmful to health.
- Recycling in accordance with the guidelines of EU Decision 97/129 EC on the Packaging Directive 94/62/EC.

Technical Data:	System:	oxime interlaced	
	Consistency:	paste-like, stable	
	Density DIN 53479-B at 23°C:	approx. 1.25 g/cm ³	
	Shore A hardness DIN EN ISO 868:	approx. 37	
	F. C	000/	

Effective toleration of movement: 20% Working temperature: +5°C - +35°C Temperature resistance: -50°C - +150°C

Time to build up skin at 23°C and 50%

relative atmospheric humidity: approx. 12 minutes Hardening time at 23°C and 50%

relative atmospheric humidity:

Elastic modulus 25% elongation **DIN EN ISO 8339:** 0.52 N/mm² approx. 210%

Elongation at break DIN 53504-S2:

Quantities required:

<u>joint breadth</u>	<u>joint depth</u>	<u>meter per cartridge</u>
5 mm	5 mm	12
10 mm	10 mm	3
15 mm	10 mm	2
20 mm	15 mm	1

Primer table:

sandstone	*1	AP10	copper	*3	+
limestone	*2	+	brass	*3	+
marble	*2	+	stainless steel		+
granite	*2	+	zinc		AP20
quartzite	*2	+	galvanized stee		+
concrete		AP10	aluminium		+
plaster		AP10	eloxadised alum	ninium	AP20
brick		AP10	hard PVC		AP30
fibrated concrete		AP10	polyester		+
plaster of Paris		AP10	acrylic bathroom fittings+		
ceramics, glazed/unglazed		+		*4	+
glass		+	polycarbonates	*4	+
untreated wood		+	formic		AP30
varnished/painted wood*7		+	ABS		+

- adheres well
- coat thinly with Primer AP10 twice
- *2 for application in wet/moist rooms or outdoors use Primer AP10
- grind the surface with a fine sand paper
- *4 the sealing material may cause plastics under surface tension to break; test beforehand!
- *7 test the compatibility of the coating/painting with the sealant by means of preliminary tests

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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.

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.