

Technical Data Sheet

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Properties: AKEMI® MS-Hybrid-Polymer is an elastic one-component joint sealing compound on the basis of MS-hybrid-polymer which hardens in contact with air humidity. The product is characterized by the following properties::

- can be used indoors and outdoors
- has been tested in accordance with DIN 18540-F
- is weather- and UV-resistant
- odourless
- very good working properties, even at lower temperatures
- can be coated
- blister-free hardening
- good adhesion on many surfaces without primer
- free of silicones, solvents, isocyanates and halogens
- hardens without failure

Application Area: AKEMI® MS-Hybrid-Polymer is a special sealing compound which is used to ensure elastic joint sealings for all expansion joints in the building construction sector. It is also used for connecting joints between concrete, masonry, plaster, wood, metal, various plastics and joint sealings in the plumbing sector. AKEMI® MS-Hybrid-Polymer is suited everywhere there, where it has to be coated afterwards or where no silicone sealant is desired.

Instructions for Use:

1. Contact surfaces must be firm and free of dust, fat and rust. On Concrete, clinker and tiles use AKEMI® Cleaner A. Use AKEMI® Cleaner I for plastics and painted surfaces.
2. Use AKEMI® back-filling cords in order to avoid adhesion on three flanks or in the event of deeper joints.
3. Use AKEMI® special adhesive masking tape to cover up the areas near the edges of the joints.
4. Adheres to many surfaces - also to absorbent surfaces - without primer. If the surface is very absorbent, we recommend a prime coat with diluted acrylic resin (diluted with water, ratio 1:1 to 1:5). The prime coat should be dry before the joints are sealed.
5. Working temperature: +5° C to +40° C (contact surfaces must be dry).
6. Apply the product and smooth it within 30 - 40 minutes. Excellent Results can be achieved by using AKEMI® smoothing agent and AKEMI® smoothing rubber.
7. Before the sealant begins to form a skin, remove the masking tape by pulling it in the direction of the joint.
8. The rate of hardening is dependent upon the thickness of the layer, the temperature and the relative atmospheric humidity. It varies between approx. 2.5 mm per 24 hours, approx. 4 mm per 48 hours.
9. Tools can be cleaned with AKEMI® Cleaner A.

Special Notes:

- Use AKEMI® Liquid Glove to protect your hands.
- Undersurfaces coated with tar or bitumen cause a discolouration of the sealant. The same applies for elastomers such as EPDM, EPT and neoprene. For this reason it is recommended to carry out a test first.
- The product is not suitable for use where there is constant water pressure or for joints in swimming pools.
- It is not suitable for natural stone (use AKEMI® Marble Silicone instead).

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- Sealing compound which has already hardened can only be removed mechanically. If it has not hardened yet, it can be removed with AKEMI® Cleaner A or I, depending on the base surface.
- AKEMI® MS-Hybrid-Polymer can be coated. It is recommended to carry out a test first due to the diversity of paints and coating materials available in the market. Drying-time may delay with paints based on alky resin. Can be immediately coated directly after application with many paint systems which are commercially available. Adhesion problems with some paint systems may occur after the skin formation.
- In case AKEMI® MS-Hybrid-Polymer is applied on painted or plastered surfaces, the drying time of the coating material / plaster must be kept (generally 10 days).
- Can be coated at any time after cleaning with AKEMI® Cleaner A.
- In order to avoid stains you should not apply AKEMI® Primer to visible areas.
- Remove excess smoothing agent in order to avoid stains.
- Sufficient humidity supply is necessary during the curing time in order to avoid failure in the hardening process.

Technical Data:

System:	MS hybrid polymer
Consistency:	paste-like, rigid
Density (at 23°C):	1.47 +/- 0.02 g/cm ³
Shore A hardness DIN 53505:	22+/-2
Effective toleration of movement:	25%
Modulus at 100% elongation:	< 0,4 N/mm ²
Elongation to tearing:	approx. 600%
Working temperature:	+5°C to +40°C
Smoothing time (at 23°C and 50% relative air humidity):	30 – 40 minutes
Rate of hardening (at 23°C and 50% relative air humidity):	after 24 h: 2.5 mm after 48 h: 4 mm
Change of volume:	2%
Temperature resistance:	-40°C to +90°C
Chemical stability:	
Good against:	water, aliphatic solvents, oils, greases, diluted inorganic acids, alkalis
Moderate against:	ester, ketones, aromatics
Not resistant against:	concentrated acids, chlorinated hydrocarbons

Storage: 12 months approx. if stored in cool place free from frost in its tightly closed original 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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