Technical Data Sheet

Properties:

AKEMI® MS Adhesive Sealant is a one-component adhesive on the basis of MS polymer, which hardens in contact with air humidity. The product is characterized by the following properties:

- no discolouration on natural stone
- easy to process
- easy to smooth
- fast hardening, high initial strength
- almost odourless
- free of plasticizers
- temperature-resistant from -40°C to +80°C (for a short time up to 120°C)
- resistant to humidity and weathering
- can be coated with paint
- good adhesion also on slightly humid surfaces

Application Area:

AKEMI® MS Adhesive Sealant is very suitable for elastic, non polishable bondings of natural and artificial stones e.g. marble, granite, porcelain, ceramics, quartzite, sandstone, terrazzo, concrete and similar (e.g. flat bonding of natural stone slabs or tiles with mineral, metallic or wooden surfaces). The product has an excellent adhesion on plaster, glass, wood, a large number of plastics and metals (e.g. zinc, aluminium, steel), lacquers or primers. In addition, joints can be sealed.

Instructions for Use:

1. The contact surfaces must be dry, clean and free of oil, grease and Dust. On natural and artificial stone, tiles, ceramics, glass, not painted wood and metals use AKEMI® Cleaner A. For plastic and painted surfaces use AKEMI® Cleaner I.
2. Working temperature: +5°C to +30°C.
3. Apply the product in two beads of the required width parallel (i.e. not in contact with) to one another.
4. Join the parts to be bonded within 5 minutes. Joints can be smoothed by using AKEMI® Smoothing Agent.
5. Skin formation within 10-15 minutes (approx. 3 mm on the first day), hardening time depends on thickness of layer, temperature and relative humidity.
6. Tools can be cleaned with AKEMI® Cleaner A or I.

Special Notes:

- Use AKEMI® “Liquid Glove” in order to protect your hands.
- No or limited adhesion on plastics containing softeners and PE, PP, PTFE etc.
- Suitable for spraying with many varnishes immediately after application. After skin formation, adhesion problems may occur in case of some particular varnish systems.
- Insufficient humidity supply during the hardening process may cause staining.
- 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.
- In order to ensure orderly disposal, the cartridge must be emptied completely.
- The hardened sealing presents no danger to health.

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Technical Data:

Basis:	MS-polymer
Colour:	grey
Consistency:	paste-like, rigid
Density (DIN 53479-B at 23°C):	approx. 1.65 g/cm³
Shore A hardness (DIN 53505):	approx. 60
Working temperature:	+5°C - +30°C
Temperature stability:	-40°C - +80°C
Skin formation time (at 23° C and 50% relative air humidity):	10 - 15 minutes
Hardening (at 23°C and 50% relative air humidity):	approx. 3 mm per 24 hours
Tensile strength (DIN 53504):	2.0 N/mm²
Elongation at break (DIN 53504):	approx. 220 %
Tear growth resistance ASTM D 624 form B:	11 N/mm²

Storage:

12 months when stored in a cool and dry place in 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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