

Technical Data Sheet

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- Properties:** AKEMI® MS 76 Stone and Marble Adhesives, consistency from highly liquid up to knife-grade, are 2-component products based on unsaturated polyester resins dissolved in styrene with a special adhesion additive. The products are distinguished by the following properties:
- good working properties and application on horizontal and vertical areas due to highly liquid, liquid, still flowing, creamy or knife-grade consistency
 - fast hardening (20 - 40 minutes)
 - easy dosing and mixing with cartridge system
 - good working properties (grinding, milling, drilling)
 - very good adhesion on metal (iron, steel, aluminium), wood, stone and various plastics (e.g. rigid PVC, GFK) also at higher temperatures (up to 100°C approx.)
 - resistant to water, petrol and mineral oils
- Application Area:** AKEMI® MS 76 Stone and Marble Adhesive/Special Cast Resin/Rodding Bond are mainly used in the stone processing industry and trade for the bonding of natural and artificial stones, iron, steel or aluminium, wood, or plastics together or among each other. In addition MS 76 Special Cast Resin and MS 76 Rodding Bond in connection with GRP-, CFRP-steels and flat bars as a reinforcement adhesive for slot reinforcements are used for kitchen tops, tables etc. and for sealing cracks and joints in screed flooring and concrete. The products are suited for bondings which are not too highly exposed to mechanical stress indoors and conditionally outdoors up to a temperature of 60-0°C, resp. in case of bondings not exposed to mechanical stress up to temperatures of approx. 100°C. The advantage of these products is the short hardening time, yet, the bondings are not of the same high quality as those made with AKEPOX® adhesives (epoxy based).
- Instructions for Use:** A: Products in tins
1. The surface to be treated must be clean, completely dry and roughened.
 2. Add 1 to 3 g of white hardener paste to 100 g of filler (4 to 5 cm of paste pressed out of the screw tube correspond to 1 g).
 3. Mix both components thoroughly. The mixture can be worked for about 4 to 14 minutes (20°C).
 4. After 20 40 minutes (20C °) the treated parts can be further processed and transported; after 1 hour bonded parts can be exposed to strain.
 5. If to use MS76 Special Cast Resin as a repair resin for filling and repairing cracks in screed flooring or joints, first fill in and smooth the surface with a spatula. It may be necessary to widen the cracks beforehand or use screed repair brackets. In order to improve adhesion for additional layers of chemical products, sprinkle quartzite sand on the material before MS76 hardens.
 6. Wait for 60 minutes before further floor restoration, e.g. application of adhesives or compensation fillers.
 7. The hardening process is accelerated by heat and delayed by cold.
 8. Tools can be cleaned with AKEMI® Nitro-Dilution.

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Density:

Stone and Marble Adhesive still flowing/knife-grade:	approx. 1.63 g/cm ³
Special Cast Resin:	approx. 1.36 g/cm ³
Rodding Bond liquid:	approx. 1.73 g/cm ³
Rodding Bond highly liquid:	approx. 1.37 g/cm ³

Working time / min.:

a) at 20°C

	<u>still flowing/knife-grade</u>	<u>liquid</u>
1% of hardener:	8 - 10	14 - 16
2% of hardener:	5 - 6	7 - 9
3% of hardener:	4 - 5	5 - 6

b) with 2% of hardener

at 10°C:	10 - 12	12 - 14
at 20°C:	5 - 6	7 - 9
at 30°C:	3 - 4	3 - 4

c) cartridge (Rodding Bond liquid and highly liquid)

at 10°C:	10 - 12
at 20°C:	5 - 6
at 30°C:	2.5 - 3

Mechanical properties:

Tensile strength DIN 53455: 15 - 25 N/mm²
 Bending strength DIN 53452: 40 - 50 N/mm²

Storage:

1 year 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 trials of the product, in an inconspicuous area or fabrication of a sample piece.

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