Technical Data Sheet

Properties:

AKEMI® Marble Filler Super is a highly liquid 2-component product based on acrylic resins containing methyl methacrylate.

The product is characterized by the following properties:
- good penetration into porous areas and fissures due to fast wetting and highly liquid consistency
- fast and tack-free hardening (20 - 60 minutes)
- excellent polishing properties
- very good adhesion on natural and artificial stone, respectively on alkaline building materials (s.a. concrete, concrete ashlar)
- resistant to water, petrol and mineral oils

Application Area:

AKEMI® Marble Filler Super is mainly used in the stone processing industry and construction industry for force-locking closure of fissures, filling of porous natural stone slabs and for the production of stone substitutes with stone powders or sand with relatively good resistance to light.

Instructions for Use:

1. The surface must be clean, completely dry and roughened.
2. Colouring is possible by adding AKEMI® Polyester Colouring Pastes, Colouring Concentrates liquid or Spectrum Pastes up to max. 5%. Dilution is possible in a ratio up to max. 8% by adding AKEMI® Thinner S.
3. Add 1 to 4 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).
4. Both components are mixed completely; the mixture can be worked for approx. 4 - 16 minutes (20°C).
5. After 20 - 60 minutes the treated parts can be further processed respectively transported.
6. The hardening process is accelerated by heat and delayed by cold.
7. Tools can be cleaned with AKEMI® Nitro-Dilution.

Special Notes:

- For professional use only.
- Use afin® Liquid Glove to protect your hands.
- Hardener portions higher than 4% reduce adhesion and deteriorate surface drying.
- Hardener portions less than 1% and low temperatures (below 5°C) considerably delay hardening.
- The bonding layers should be as thin as possible (< 1 mm) due to shrinkage (approx. 5 - 8%) caused by the high reactivity of the filler and development of heat during the hardening process.
- Non-durable resistance of bondings which are frequently exposed to humidity and frost.
- Only moderate adhesion on fresh, alkaline building materials (e.g. concrete, concrete ashlar).
- The hardened filler tends to yellowing.
- Once hardened, the filler can no longer be removed by solvents. Removal is only possible mechanically or by higher temperatures (> 200°C).
- Being worked properly, the hardened filler is generally not hazardous to health.
- For proper waste disposal the container must be completely emptied.
- Recycling in accordance with the guidelines of EU Decision 97/129 EC on the Packaging Directive 94/62/EC.

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Colour:	colourless transparent
Density:	1.00 - 1.05 g/cm³
Working time/minutes:	
a) at 20°C	
1% of hardener:	14 - 16
2% of hardener:	5 - 11
3% of hardener:	6 - 8
4% of hardener:	4 - 6
b) with 2% of hardener:	
at 10°C:	18 - 20
at 20°C:	9 - 11
at 30°C:	4 - 5
Mechanical properties	
Tensile strength DIN EN ISO 527:	45 - 55 N/mm²
Compresive strength DIN EN ISO 604:	80 - 90 N/mm²
Bending strength DIN EN ISO 178:	30 - 40 N/mm²

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.

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