

## Technical Instruction Sheet

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**Characteristics:**

AKEMI Marble Fillers 1000Thixo are paste-like 2-component products based on unsaturated polyester resins dissolved in styrene, containing mineral filling agents. The products are distinguished by the following qualities:

- good working properties due to creamy-soft consistency, especially on vertical surfaces.
- excellent and fast drying of the surface
- fast hardening (15 - 30 minutes)
- good working properties (grinding, milling, drilling)
- excellently polishable
- very good adhesion on natural stones also at higher temperatures (70 - 80°C; in case of low exposure to strain: 100 - 110°C)
- resistant to water, petrol and mineral oils.

**Field of Application:**

Marble Fillers 1000 Thixo are mainly used in the stone processing industry for filling and bonding natural and cast stones. The products become soft and creamy when stirred and spread, thus making it very easy to fill larger areas on horizontal and especially vertical surfaces. Fast surface drying enables further processing without any problems.

**Instructions for Use:**

1. The surface to be treated must be clean, completely dry and slightly roughened.
2. Colouring is possible by adding AKEMI Polyester Colouring Pastes up to max 5 %. Dilution is possible in any ratio by adding Marble Filler Transparent extra liquid.
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. Mix both components thoroughly. The mixture can be worked for about 3 to 10 minutes (20°C).
5. After 10 to 20 minutes the treated parts can be further processed and transported.
6. The hardening process is accelerated by heat and delayed by cold.
7. Tools can be cleaned with AKEMI Nitro-Dilution.

**Special Hints:**

- Use AKEMI 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 (under 5°C) considerably delay hardening.
- The bonding layers should be as thin as possible (< 2 mm) due to shrinkage (approx. 2-3 %) caused by the high reactivity of the filler and development of heat during the hardening process.
- When filling bigger holes or modelling corners and edges use as little hardener as possible.
- Limited durability of bonding which is frequently exposed to humidity and frost.
- Moderate adhesion on fresh, alkaline building materials (e.g. concrete, concrete bricks).
- The hardened filler has a slight tendency to yellowing.
- Once hardened, solvents can no longer remove the filler. Removal is only possible mechanically or by higher temperatures (> 200°C).
- Being worked properly, the hardened filler is generally recognized as not injurious to health.

**Safety Measures:**

see EC Safety Data Sheet

### Technical Data:

Colour:

white, black, paglierino light, paglierino dark, stone structures Travertine light, Jura – light brown, Impala dark brown

Density: 1.70 - 1.75 g/cm<sup>3</sup>

Working time / min.:

a) at 20°C

1% of hardener: 8 - 10

2% of hardener: 5 - 6

3% of hardener: 4 - 5

4% of hardener: 3 - 4

b) with 2% of hardener

at 10°C: 10 - 12

at 20°C: 5 - 6

at 30°C: 2 - 3

Shelf life: 1 year approx. if stored in cool place free from frost in its tightly closed original container.

### Notice:

The above information is based on the latest stage of technical progress. It is to be considered as a non-binding hint and does not release the user from a performance test, since application, processing and environmental influences are beyond our realm of control.