

Technical Data Sheet

Page 1 of 2

Properties:

AKEMI® Stone-Sil Dip Technology Impregnating Hardener is a penetrating Nano-Lithium® treatment for terrazzo, natural stone and polished concrete surfaces. Formulated specifically for surfaces that will be ground and polished. AKEMI® Stone-Sil Dip Technology is ideal for restoring and polishing worn and damaged surfaces. This environmentally friendly treatment also reduces alkalinity (efflorescence), improves overall abrasion resistance and reduces dusting. Its deep-penetrating, non-soluble characteristics provide longer life and higher reflectivity, helping to reduce floor maintenance cost. When properly installed, AKEMI® Stone-Sil Dip Technology will not leave surface bloom (whitish film or residual deposits) that are difficult to remove. Simple application requires only one treatment, with no brooming or rinsing (compared to sodium chemistry which requires multiple coats, brooming, rinsing and hazardous rinse water disposal). AKEMI® Stone-Sil Dip Technology will not contribute to alkali-silica reactivity (ASR) and AKEMI® Stone-Sil Dip Technology inhibits alkali salts (efflorescence) and sweating in concrete/terrazzo stone surfaces.

KEY BENEFITS:

- deepens clarity and heightens reflectivity (gloss)
- penetrates and seals new and existing marble, natural stone, terrazzo and concrete
- improves chemical and water resistance
- increases abrasion resistance
- reduces alkalinity/efflorescence
- extends the service life of the floor
- use-friendly, non-whitening
- easy to use and maintain
- environmentally friendly, water-based formula - VOC-compliant
- interior/exterior use

Application Area:

For the treatment of polished and absorbent natural stone, e.g. marble, slate, Solnhofen limestone, sandstone, granite, gneiss. Also suitable for concrete ashlar.

Instructions for Use:

1. Apply AKEMI® Stone-Sil Dip Technology on the surface evenly with a pump-up sprayer or a high-volume low-pressure sprayer (HVLP). Spread out any pools with a flat microfibre pad. Alternatively dip the stone into a tray filled with AKEMI® Stone-Sil Dip Technology.
2. Allow the material to remain on the surface for 20 - 30 minutes. DO NOT LET ANY AREA DRY OUT during this time. Add more AKEMI® Stone-Sil Dip Technology as needed in order to maintain a uniformly wet surface.
3. After material has penetrated and is no longer wet on the surface, continue grinding and polishing to the intended final surface profile and desired finish using a wet polishing method. We recommend using an auto scrubber and water to remove residual slurry between abrasive disc grits.
4. Clean the surface with a damp cloth, then wipe dry with a second clean cloth.

TDS 03.22

Technical Data Sheet

Page 2 of 2

- Special Notes:**
- Clean up – use soap and water to clean tools and equipment. Although AKEMI® Stone-Sil Dip Technology (IH) is non-toxic and environmentally safe, it is alkali. Use up or dry out extra material and dispose of according to local regulations. Do not pour into sewer systems or storm drains.
 - Remove spills promptly. Regular cleaning with AKEMI® Crystal Clean is recommended. Avoid cleaners containing citrus or cleaners with a pH below 7.
 - AKEMI® Stone-Sil Dip Technology (IH) will not bridge or fill cracks, it only fills micro pores.
- Technical Data:**
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|---------------------|----------------------|
| Colour: | slightly turbid |
| Active ingredients: | 100% of total solids |
| VOC content: | < 50 g/L |
| Flash point: | N/A |
| Freeze point: | 32°F (0°C) |
- Storage:** If stored in dry and cool condition (5-25°C/41-77°F) in its closed original container at least 24 months from production.
- Health & Safety:** KEEP OUT OF REACH OF CHILDREN This product is alkali. Do not drink. If swallowed, do not induce vomiting, drink plenty of water and call physician. Keep container closed tightly when not in use. Wear goggles and gloves. If splashed in eyes rinse eyes immediately with clean water and call a physician if irritation persists. AKEMI® Stone-Sil Dip Technology (IH) will dry out and irritate the skin. Clean skin with soap and water promptly. CAUTION: surfaces wet with AKEMI® Stone-Sil Dip Technology (IH) may be slippery. Additional precautions, safety information and first aid treatments are contained in the Safety Data Sheet.
- 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.

TDS 03.22