

Technical Instruction Sheet

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Characteristics:

AKEMI® Stone-Sil 800 (IH) impregnating hardener is a penetrating Nano-Lithium® treatment for marble, natural stone, terrazzo and polished concrete surfaces formulated specifically for surfaces which has been ground and polished upto 800 grits.

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 reduce floor maintenance cost. Used during the production (grinding and polishing) of marble, natural stone, concrete or terrazzo surfaces AKEMI® Stone-Sil 800 (IH) is designed to enhance the process, making it easier to re-profile as well as reduce costly wear and damage to diamond abrasives. When properly installed, AKEMI® Stone-Sil 800 (IH) 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 or Potassium chemistry which requires multiple coats, brooming, rinsing, and hazardous rinse water disposal).

KEY BENEFITS

- Deepens clarity and heightens reflectivity (gloss)
- Penetrates and seals new and existing marble, natural stones terrazzo and concrete
- Improves chemical and water resistance
- Increases abrasion resistance
- Reduces alkalinity / efflorescence
- Extends the service life of the floor
- User friendly, non-whitening
- Easy to use and maintain
- Environmentally friendly, water-based formula--VOC compliant
- Interior / exterior use

Field of Application:

For the treatment of polished absorbent marble and natural stone, e.g. marble, slate, Solnhofen lime stone, sandstone, granite, gneis or concrete ashlar.

Instructions for Use:

Precautions: Apply only when temperatures will be above 36° F (2°C) for at least 4 hours following application. Clean surface to remove any dirt, laitance, curing compounds or coatings that may prevent AKEMI® Stone-Sil 800 (IH) from penetrating into the surface. Do not use citrus or acidic cleaners. If acid dyes or cleaners have been used, neutralize the surface using AKEMI® Stone Cleaner. Do not use high pressure sprayers. In hot, windy conditions, it may be necessary to spray water on hot concrete to cool the surface prior to application. So AKEMI® Stone-Sil 800 (IH) does not flash-dry on the surface. If AKEMI® Stone-Sil 800 (IH) comes into contact with glass, fabric, metal, or painted surfaces, wipe immediately contaminated surfaces with a damp cloth, then wipe dry with a second clean cloth.

AKEMI® Stone-Sil 800 (IH) may be applied immediately after 800 grit polish is over. Using a pump-up sprayer for smaller jobs, spray AKEMI® Stone-Sil 800 (IH) evenly on the surface. Spread out any pools with a soft bristle broom or a flat microfiber pad. Keep surface wet for at least 20 minutes, adding more material where needed. DO NOT LET ANY AREA DRY OUT during this time. Add more AKEMI® Stone-Sil 800 (IH) as needed in order to maintain a uniformly wet surface.

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. If using a wet polishing method, we recommend using an auto scrubber and water to remove residual slurry between abrasive disc grits.

Special Hints:

- Clean Up—Use soap and water to clean tools and equipment. Although AKEMI® Stone-Sil 800 (IH) is non-toxic and environmentally safe, it is alkali—use up or dry out extra material and dispose of according to local regulations. Don't pour into sewer systems or storm drains.
- Remove spills promptly. Regular cleaning with AKEMI® Crystal clean is recommended. Avoid cleaners containing citrus or butyl compounds, or cleaners with a pH below 7.
- AKEMI® Stone-Sil 800 (IH) will not bridge or fill cracks, it only fills micro pores.

Technical Data:

Coverage:	natural stone after 800 grit approx. 200-250 Sq. ft./litre depends on the porosity of the stone
Colour:	slightly turbid
Active Ingredients:	100% of total solids
VOC Content	<50g/L
Flash Point	N/A
Freeze Point	32°F (0°C)
Shelf Life	2 Years in unopened factory sealed container

Safety Measures:

KEEP OUT OF REACH OF CHILDREN. This product is alkali. Do not drink. If swallowed, do not induce vomiting, drink 2 glasses 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 800 (IH) will dry out and irritate the skin. Clean skin with soap and water promptly. CAUTION: Surfaces wet with AKEMI® Stone-Sil 800 (IH) may be slippery. Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet.

The above specifications were made in accordance with the present-day stage

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Notice:

in development and the application technology research of our firm. Because the ways and means of application are beyond our control, the manufacturer cannot be made liable for the contents of this specification sheet.