

## TECHNICAL DATA SHEET

### HMK® R183 Cement Film Remover for Natural Stone

**DESCRIPTION:** HMK® R183 is an acid based special cleaning concentrate (salt and phosphoric acid-free, as recommended in leaflet 1.10 from ZDNW) for removing construction dirt, cement film and limescale from all acid-resistant natural and artificial stone and rough concrete surfaces internally and externally.

**CHARACTERISTICS:** HMK® R183 uses a combination of special cleaning agents and other active ingredients to quickly and effectively loosen and remove construction dirt, cement residue, limescale, mortar and grout residue.

**USES:** HMK® R183 is designed for use on all acid resistant natural and artificial stone surfaces, granite, gneiss, sandstone, ceramic tiles, brick tiles, porcelain tiles, rough cast stone, composite-quartz, etc.... Suitable for internal and external use.

**DURABILITY:** Underfloor heating must be switched off and the surface must be dry and allowed time to cool to its natural temperature. Test the product in an inconspicuous area to evaluate suitability and coverage.

**APPLICATION:** Dampen the surface thoroughly with fresh water and apply the HMK® R183 diluted with fresh water 1:2 to 1:10 in accordance with the level of contamination and, scrub using a brush, scrubbing brush or suitable pad. Allow a few minutes for the HMK® R183 to work but do not allow it to dry, scrub the surface again and remove as much of the residue as possible. Then use HMK® R155 Intensive Cleaner - acid free diluted 1:20 with fresh water to lift the remaining residue into suspension and enable complete removal. Finally, rinse the surface thoroughly with clean water to remove any latent chemical residue. Repeat the process in the case of extremely dirty surfaces. When using a wet vacuum we recommend that you add HMK® Z702 Defoamer to the water to regulate the amount of foam.

**IMPORTANT:** Do not use on polished and fine honed marble, limestone, decorative concrete and other acid sensitive stones and decorated tiles. Acid sensitive surfaces like painted surfaces, waxed or stained wood, enamel, anodized/chrome equipment, metals, furnishings and equipment such as air conditioners, lamps, computers, mirrors, plastics, etc... can be damaged by direct contact with HMK® R183 and its vapors.

**WORKING TEMPERATURE:** The ideal temperature in the area to be treated is between +12°C and +25°C. Do not apply in direct sunlight.

**EQUIPMENT CLEANING:** Equipment can be cleaned in fresh water.

**NOTE:** Ensure that areas not to be treated, walls, glass, furni-

ture, and surfaces sensitive to acids are protected. Cement based grout that has been allowed to set sufficiently will not be damaged. HMK® R183 is unsuitable for resin based grouts.

**COVERAGE:** Variable depending on the material, environment, and the type and level of contamination around 5 to 30m<sup>2</sup>/litre.

**STORAGE:** Store in a cool and dry place below +25°C. HMK® R183 can be stored for over 1 year in its original packaging. Use the contents of opened cartons as quickly as possible. Keep out of the reach of children. Please consider local rules and regulations applying to the storage of this product.

**TECHNICAL DATA:**

Form:	liquid
Color:	clear
Smell:	characteristic
PH value:	approx. 2 (concentrated)

**RECOMMENDATION:** Before applying a protective treatment allow at least 1 to 2 days after completion of the cleaning process to allow for any moisture to dry from the surface to a residual moisture content of 2 to 4%.

**SAFETY:** Take appropriate precautions whilst handling and using chemical products. Our products are classified and labeled in accordance with EU regulations. Ensure adequate ventilation when working in enclosed spaces. Remove all foodstuffs from the area to be treated before work is commenced to avoid odor tainting. Causes serious eye irritation. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Wear protective gloves, protective clothing, eye protection, face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice, attention. If eye irritation persists: Get medical advice, attention.

**INGREDIENTS:** Contains surfactants, acids and control agents.

**ENVIRONMENTAL PROTECTION:** Do not allow large quantities of undiluted product to enter the ground water, water course or sewage system.

**DISPOSAL:** Untreated packing and any residue must be disposed of in accordance with local regulations. The bottles are made from pollution free PE and are recyclable. Empty and cleaned bottles and packaging can be disposed of via most regular re-cycling programmes.

**PACKAGING (PU):**

1-Litre bottles:	12 pieces per box
5-Litre cans:	2 pieces per box
10-Litre cans:	1 pieces loose