

## Cuore MD ECO SD 1000

<b>Composition</b>	<b>Cuore MD Eco SD 1000</b> is a silicate based densifier. Innovative silicate densifier. Protects against penetrating moisture and chemical stress.	
<b>Basis</b>	Inorganic	
<b>PH-value</b>	11.4	
<b>Maximum admitted air humidity</b>	Max. 80% r.H. Min. +5°C, max. +55°C	
<b>Processing temperature</b>		
<b>Organic solvents</b>	None	
<b>Density</b>	1.1g/cm <sup>3</sup>	
<b>Colour</b>	Transparent	
<b>Viscosity</b>	< 100 mPas	
<b>Consumption (depending on substrate)</b>	Concrete/screed	400-800g per m <sup>2</sup>
	Self-levelling compounds	30-60g per m <sup>2</sup>
<b>Necessary number of applications</b>	Min. of 2 applications	
<b>Properties</b>	<ul style="list-style-type: none"> <li>• Silicate Technology</li> <li>• Environmentally friendly</li> <li>• VOC- and APEO-free</li> <li>• water vapor permeable</li> <li>• solidifies the substrate and increases the chemical resistance</li> <li>• reduces surface abrasion</li> <li>• protection against penetrating water in case of cracking</li> <li>• odorless</li> <li>• protection against efflorescence</li> </ul>	
<b>Range of usage</b>	<ul style="list-style-type: none"> <li>• For indoor and outdoor use</li> <li>• Solidifies porous cementitious substrates</li> <li>• Permanent protection against ground water, salt water and strong chemical stress</li> <li>• As sealant against penetrating moisture on walls</li> <li>• Protection against carbonation</li> <li>• For protection and restoration of drinking water reservoirs, sewage plants and wastewater pipes</li> <li>• Suitable for concrete, facades, walls, cellars, horizontal barriers, pipes and all cementitious substrates</li> <li>• For factory-set protection of concrete products and parts</li> <li>• Applicable for subsequent paintings</li> </ul>	

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## Preparation of substrate

The substrate has to be absorbent, free of dust, loose parts, oils, grease and other impurities. Chalk and sandy components must be removed before the solidification using an efficient industrial vacuum cleaner. Coatings and/or render should be stripped off. Concrete and other cementitious substrates must have a minimum age of at least 14 days.

## Application

### Concrete and screed

**MD Eco SD 1000** is to be sprayed undiluted on substrates, or brushed/rolled on surfaces to cover all areas. **MD Eco SD 1000** should be applied at least twice (wet-on-wet). Every application has to penetrate completely into the substrate. On absorbent substrates like unpolished concrete or screed the application should be repeated until the substrate is saturated, with any surpluses cleaned up. The surface must be protected against rain and moisture for 24 hours after application.

Cover the freshly applied surface air-permeably. After 7 days, an air-tight cover is possible. In case of new concrete surfaces, or other new cementitious materials, the above mentioned minimum age has to be observed. The recommended consumption volume should not be exceeded.

Attention When **MD Eco SD 1000** is applied in combination with **Cuore MD Eco SI 1000**, **MD Eco SD 1000** has to be applied first. After sufficient drying (surface should not be wet) the subsequent coating with **MD Eco SI 1000** has to be applied. For optimal results, both coatings have to be applied within one day. Furthermore it has to be attended that due to the combination of both products, the treatment with **MD Eco SI 1000** has to be taken into account with the consumption of **MD Eco SD 1000**. Depending on the substrate, an excess of one of these products could lead to an optical impairment of the surface. For further information about the application of **MD Eco SI 1000**, please refer to the technical data sheet of **MD Eco SI 1000**.

### Self-levelling compounds

On fine-grained and dense substrates, like the self-levelling compounds of the **SL product line**, the surface has to be prewetted with clear water before application of **MD Eco SD 1000**. The water is distributed with a microfiber mop. Following, **MD Eco SD 1000** is applied wet-in-wet with a low-pressure sprayer, immediately distributed uniformly in one direction with a microfiber mop, so that the complete surface is wetted with **MD Eco SD 1000**. In order to ensure a uniform and stripe-free application, prevent the microfiber mop from running dry.

The formation of puddles and large supernatants should be avoided. **MD Eco SD 1000** has to be applied wet-in-wet in 2 thin layers to provide a sufficient protection. As soon as the last application with **MD Eco SD 1000** is completely dried (approx.2 hours), the surface can be polished if required. Further information is available on request.

## Concrete protection

For factory-set protection of paving stones, concrete slabs and concrete parts, **MD Eco SD 1000** can be used directly in the production process. Therefore use 2.0-2.5 L in 1m<sup>3</sup> of an adjusted concrete formulation. To ensure an optimal distribution of the silicate ingredients, **MD Eco SD 1000** is added to the mixing water. Please refer to the **Cuore** brochure

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#### Tools and cleaning

for information about the adjustment of the concrete formulation and about the required amount of **MD Eco SD 1000**. The brochure can be requested on the **Cuore** website.

Brush, wide brush, paint roller or spraying device.

All equipment should be washed clean and dried before and after application.

#### Packaging and shelf life

5L canisters.

Original packaging is storable for 12 months in dry and controlled temperate areas (not below 0°C, recommended 10-25°C). Reseal opened containers immediately and use within a very short time.

#### Safety notes

**MD Eco SD 1000** is an alkaline liquid.

Please refer to the material safety data sheet which can be requested on the **Cuore** website for further information on safety during transportation, storage, handling and disposal. Follow the instructions on the packaging.

#### Notes

In case of decorative surfaces, a small sample should be created on an uncritical position at least one day before application. Do not apply on non-absorbent surfaces. Please protect glasses, glass, tiles, clinker and similar from splashing material! Aluminum may not come in contact with the material. Impurities have to be washed off immediately with water. With each interruption of work the tools have to be cleaned.

It is important to ensure that no **MD Eco SD 1000** reaches the surface prior to application. For example by dripping work tools or footwear under which the product has collected. Otherwise efflorescence can occur on pre-wetted areas. Also clean footwear should be worn during application to avoid contamination on fresh applied surfaces.