

Cuore MD Eco STUC

Description

Cuore MD Eco STUC is a cement-based micro coating for floors, furniture and walls.

MD Eco STUC has a higher wear and impact resistance than other traditional micro-cement systems. It is ideal for renovating floors and despite being very thin, its resistance is suitable for industrial applications and complies with BCA AR 0.5.

MD Eco STUC provides texture and variation in shade and colour to interior and exterior floors, interior and exterior walls that paint can only dream of. Worktops, furniture, shop counters and reception desks are increasingly given the design of **MD Eco STUC**. Seamless application.

MD Eco STUC is a technical product based on chemical additives and special cements mixed with selected aggregates. It is flexible and ideal for facades and other vertical surfaces. It can be finished in many different ways to create anything from a dense, colourfast, smooth and easy-to-clean concrete surface, to a customized stained, rough and effect finish.

MD Eco STUC can be manufactured in all colours of the **Cuore** colour range and can also be custom designed.

MD Eco STUC is used for residential, commercial and industrial use, both indoors and outdoors. **MD Eco STUC** is highly abrasion resistant and is suitable for micro-cement applications on floors, even with high wear requirements and industrial use.

MD Eco STUC emphasizes flexibility and good adhesion to almost any surface. Its many architectural applications from uniform and smooth to nuanced colours and textures make **MD Eco STUC** a very versatile product.

Use **MD Eco STUC** to reduce your carbon footprint and lessen your impact on the environment. Little to no demolition work is required to use **MD Eco STUC**, as well as limited use of materials.

Properties and applications

- low-chromium according to TRGS 613
- high resistance to salt water and chemicals
- resistant to sulphate in accordance with DIN 4030, exposure class XA2
- may come into contact with drinking water in accordance with DVGW W 270 and W 347
- environmentally friendly
- 100% mineral base
- VOC - and APEO - free
- fast, stress-free hardening
- resistant to salt water
- high chemical resistance (pH 3-14)
- easy application

- for indoor and outdoor use

Technical properties and characteristics

Composition	Special cements, binders and aggregates
Compressive strength (N/mm²)	30 N/mm ²
Bending strength(N/mm²)	10 N/mm ²
Wear resistance	BCA AR 0.5
Application temp.	Min. +5°C, max. +35°C
Adhesion	1,85 Mpa - 28 days on concrete
Application thickness	1 – 4mm
Consumption	1,8kg/mm/m ² minimum thickness 1-2mm
Mixing ratio	19-21% water by volume/weight to kg
Opening time	Approximately 30-60min at 20°C. The opening time depends on many factors such as wind, air and substrate temperatures. In addition, the drying time is dictated by the product temperature and the water used. Therefor, we always recommend testing a small area first before starting on the entire surface.
Test sample	Test carried out with 19.60% water in standard grey. Aftertreatment with 100ml. Cuore MD Eco SD 1000 /m ²

Light load-bearing	Fully loadable indoors	Fully loadable outdoors
24 hours	7 days	7 days

Substrate preparation

Before application, it must be verified that the surface is stable and has sufficient tensile strength. The surface must be clean and free from old coatings, lime, dust, loose particles and cement sludge.

Mechanical surface preparation such as blasting, sanding, rough grinding or milling is recommended. The substrate must have open pores to ensure adhesion.

MD Eco STUC is moisture-tolerant and can be applied to damp surfaces, but please note that moisture can affect the aesthetics. The surface must be dry enough to accept a Cuore Primer (depending on substrate).

All substrates must be primed with a **Cuore** Primer. We recommend 2 layers of primer.

Mixing and application

The surface must be permanently free from vibrations and cracks. Existing cracks in the floor must be repaired professionally before **MD Eco STUC** is applied. **MD Eco STUC** is normally applied in thin layers, therefore a smooth and even surface is required/obligatory for an attractive application.

Apply another layer if necessary. Re-apply of primer should be done within 2-6 hours after the first coat. Read the technical data sheet of **Cuore** Primer for more information.

MD Eco STUC must be applied within 2-6 hours after application of the primer.

MD Eco STUC is often applied in very thin layers. If you apply it thin, you need a very good levelled substrate. Walls must be prepared in the same way as when painting and priming with a **Cuore** Primer (depending on substrate).

The material is best applied between 10°C-30°C. Mix the material with a mechanical mixer. Fill with the required amount of water (19-21%) per kg of powder material, followed by the powder material which is added while stirring. Do not mix **MD Eco STUC** with anything other than clean water.

A small test should be carried out before application to adjust the correct amount of water in the mixture and to test the curing time. Air flow, temperature, humidity and moisture of the substrate influence the workability and drying time of the product. There may also be slight variations in the mixing ratio, depending on the colour and the pigments used.

We recommend using a mixer. Smaller quantities applied on walls can be mixed with a drill. The material should be mixed intensively for 2 minutes, let it rest for 3-5 minutes before mixing again for 1 minute. Mix the mixture until it is homogeneous and lump free. Pot life: approx. 30 to 60 min.

On floors: apply the **MD Eco STUC** with tooth trowel in the desired thickness. It can be applied in one layer and can be applied standing. Go over the fresh material with a smoothing trowel to level and finish.

On walls and furniture: the material is applied directly to the walls with a hand trowel. After 4-6 hours the floor is dry enough to apply the hardener **MD Eco SD 1000**. This treatment gives the material wear resistance. It is essential for floors, but not always necessary on walls. Allow the material to dry for 24 hours. The material must not be covered and must not be exposed to direct sunlight, rain or heavy draught/wind during curing.

Finishing

To achieve higher abrasion and chemical resistance, the application of **MD Eco SD 1000** is mandatory/strongly recommended. Apply in one layer at 80-100gr/m².

The material can be sanded or lightly grinded.

Please contact our technical department for the correct sealing system in each case. If necessary, consult the relevant data sheets for further information.

Precautions

The application must be protected from drying too quickly (due to draught or intense heat of the sun). Some slight colour variations are unavoidable due to different production batches and these should be taken into account during application.

If you have different absorbing surfaces, we recommend priming with a **Cuore** primer (depending on substrate), for a more uniform application. If a uniform colour is desired, it is necessary to work on the same surface areas with the same batch numbers (see label). The product is cement based and changes in appearance due to changing processing

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Tools and cleaning

Production- packaging- storage- safety- validity

Note

techniques, differences in temperature and substrate may cause lighter colour shades in the finished product.

Wait 5-7 days until you are sure that the material has fully cured before cleaning the floor with water.

Please note that this product is a mineral/inorganic product. The product colours do not fully correspond to the RAL code and should therefore be regarded as approximate classifications only.

The colours of floors made with **MD Eco STUC** are not always uniform, which is a typical characteristic of cement-based products. Apart from the inherent nature of this product, differences in colour and markings can also be caused by the method of application. To ensure a uniform appearance, pouring must be done continuously without long intervals.

Mixing equipment (drill or pump), trowels, nailing shoes and other tools should be cleaned with clean water and dried before and after use.

MD Eco STUC is supplied in sets of 10 and 20kg.

Store bags and containers in a dry place, protected from extreme temperatures (best kept between 5°C and 25°C) and direct sunlight.

Under proper storage conditions the product is valid/ best before 12 months from date of manufacture.

There is no mandatory hazard labelling for **MD Eco STUC**. Avoid inhaling dust when opening the packaging. Protect skin and eyes during the mixing process. Consult the safety data sheet.

Cuore MD Eco STUC may only be applied by trained and professional installers.