

eMC®-Cleaner

“Cleaning with the power of nature”



The basis for the eMC®-Cleaner range is provided by EM-Effective® microorganisms, which derive mainly from lactic acid bacteria, yeasts and photosynthesis bacteria. The first two of these three bacteria types have been used for thousands of years for foods production. In addition, eMC®-Cleaner fluids contains other microorganism cultures, which serve the improved cracking of hydrocarbons (oils, fats) and cellulose (e.g. toilet paper).

Ethereal oils supplement the ability of the Cleaner range to remove dirt and provide a pleasant aroma.

The eMC®-Cleaner fluids are especially environmentally compatible. They consist of absolutely natural ingredients and are free of gene technology.

Effects of the eMC®-Cleaner range

The excellent cleaning capacity of the eMC®-Cleaner fluids, results from the power of the microorganisms, which use dirt as a source of nutrition. Even on previously cleaned surfaces, the microorganisms constantly deal with new dirt and therefore the effects of the respective eMC®-Cleaner last far longer than those of standard cleaning agents (a reduction in dirt recurrence is achieved by the residual content of biological sugar cane molasses contained in the Cleaner fluids, which serves as a nutritional reserve for the microorganisms on cleaned surfaces).

In addition, the eMC®-Cleaner fluids improve anti-static behaviour, i.e. the clean areas are discharged and dust is no longer attracted to the previous extent.

Diverse fruit extracts and ethereal oils have a good cracking effect and spread a pleasantly fresh fragrance.

The emptying of the eMC® cleaning water into the drains not only cleans the pipes, but also generates a positive microclimate. If used regularly, this results in a reduction in malodours and deposits and slows pipe corrosion. The effects of eMC®-Cleaner fluids extend to municipal and household wastewater treatment systems and thus have a positive, overall effect on the environment.

The four eMC®-Cleaner types

In order to optimise the efficiency of the Cleaner fluids in their respective areas of application, various ingredients and concentrations are used to create differing types.

As a result of their high levels of microorganism activity, the **eMC®-Citrus Cleaner** and the **eMC®-Universal Cleaner** are especially suitable for dealing with problematic malodours and spraying in rooms in order to improve the air conditions. In particular, the eMC®-Citrus Cleaner is used in the sanitation area, while the eMC®-Universal Cleaner can be employed throughout the house.

The **eMC®-Power Cleaner** and the **eMC®-Kitchen Cleaner** demonstrate high concentrations of effective ingredients (enzymes such as lipases, amylases and proteases) and therefore have enhanced fat, carbohydrate and protein cracking capacity. As a result, the eMC®-Power Cleaner is ideal for extremely dirty or large areas (also for stainless steel) and, as the name implies, eMC®-Kitchen Cleaner is used for tableware, hobs and dishwashers.

In principle, each of the Cleaners can be used in any area. Therefore, eMC®-Power Cleaner is primarily recommended and this is used most frequently in the commercial sector.

Advantages of the eMC®-Cleaner range

- Excellent cleaning effect and ability to loosen dirt particles.
- Removal of residues derived from prior chemical cleaning.
- Improvement in room air conditions.

- Antistatic effect on the cleaned surfaces.
- Prolonged cleaning effect and surface shine.
- Colours become more intensive (carpets).

- Economic, as very limited quantities are required.
- Cost savings.
- A cleaning fluid for all materials (smooth surfaces, wood, carpets, stone floors...)

- Contains pure, natural ingredients, free from gene technology.
- Especially skin-friendly and suitable for people suffering from allergies.

- Gentle cleaning.
- Cleaning and reconditioning of materials and carpets through ethereal oils.
- No additional impregnation required.

- Prevention of deposits and malodours in pipes.
- Positive influence on sewerage and wastewater treatment systems.

eMC®-Cleaner dosage

eMC®-Cleaner fluids possess extremely intensive cleansing power and therefore are used in very small quantities (should the dosage be too high, streaks can occur during window cleaning).

Wherever possible “piped” water should be used to dilute an eMC®-Cleaner. This means that the water has been activated through the insertion of **EM•X-Ceramic** pipes, which reduce the size of the clusters in the water and thus markedly enhance its cleaning capacity.

Dosage when using a spray:









In general, a concentration of 1:100 is employed for a 1litre spray bottle, i.e. a cap full of eMC®-Cleaner (= 10 ml) is added to 1l of water.

Cleaning bucket:









In a 10l –bucket, eMC®-Cleaner is diluted on a 1:1000 basis. In other words, here too, all that is required is a cap full.

Areas of application for the eMC®-Cleaner range




General

Area		Method		Effect
Lampshades Televisions Computers	All Cleaners		Spray and wipe	Against dust
Floors	All Cleaners		For wiping	Prolonged cleaning effect and shine
Carpeting	Power Cleaner		Kärcher spray extraction process	Prolonged cleaning effect and neutralised odours
Carpet stains	Power Cleaner		Spray the stain, rub in the Cleaner with a brush and subsequently brush out with water	Removes stains
Radiators	All Cleaners		Spray and wipe. Spray after cleaning.	Facilitates cleaning Prevents dirt re-accumulating
Windows Window frames	Citrus Cleaner Power Cleaner		As required	Prolonged cleaning effect
Mould	Universal Cleaner Citrus Cleaner		Spray 2 x daily, ventilate the affected room as frequently as possible	Microorganisms prey on the mould
Old cupboards	Universal Cleaner		Spray 1 x weekly	Neutralises musty odours
Room atmosphere	Citrus Cleaner Universal Cleaner		Spray as required	Against malodours



Kitchen

Area		Method	Effect
Kitchen cupboards	All Cleaners		Against dust
Extractors	Universal Cleaner Citrus Cleaner		Reduces fat deposits and smells
Tableware Washing-up sinks	Kitchen Cleaner		Simplifies cleaning, creates a shine
Ceramic tops	Universal Cleaner Kitchen Cleaner		Cracks fats
Ovens	Universal Cleaner		Reduces fat deposits in the case of stubborn dirt
Freezers	Citrus Cleaner		Against odours
Refrigerators	All Cleaners		Against odours
Sinks	Kitchen Cleaner Power Cleaner		Good cleaning effect

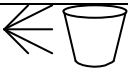
Bath

Area		Method	Effect
Mirrors	Citrus Cleaner		Prolonged cleaning effect
Washbasins Tiles Armatures	Citrus Cleaner		Shine
Showers Baths Bidets	Citrus Cleaner Power Cleaner		Reduces deposits, prevents mould



Cellar

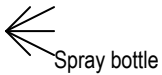
Area			Method	Effect
Washing machine Drier Boiler Heating boiler	All Cleaners	 	Wipe while moist	Prolonged cleaning effect

Office

Area		Method	Effect
Office furniture Telephones, fax machines, copiers, PCs	All Cleaners	 Wipe while moist or spray and wipe when dry	Prolonged cleaning effect

Garden

Area			Method	Effect
Garden furniture	Power Cleaner		Wipe while wet	Prolonged cleaning effect
Stone floors	Citrus Cleaner Power Cleaner		Wipe while wet	Prolonged cleaning effect



Spray bottle



Cleaning bucket

Other possibilities for application

Yachts, cars, etc.

Additional information

The eMC®-Cleaner range not only constitutes a selection of optimum cleaning agents in the aforementioned areas, but is also useful in another important context, namely in home and municipal wastewater treatment systems. The two major advantages provided by eMC® in this connection are:

- 1) The biology of the system is maintained, as due to the use of eMC®-Cleaner fluids, agents containing phosphate, disinfectants or other aggressive additives are not required.
- 2) The microorganisms contained in eMC®-Cleaner fluids populate surfaces throughout the entire system, starting in the households or companies (during cleaning) and extending to the piping network (transport of the wastewater) and the wastewater plant itself. In household wastewater treatment systems, the regular use of eMC®-Cleaner fluids means that eMB® is not required (eMB® is a microorganism mixture, which is employed for the upgrading of the biological cleaning performance and the limitation of malodours in wastewater treatment plants and pumping stations. Please see the eMB® brochure). The wastewater is already pre-cleaned on its way to the treatment plant and in addition, the microorganisms in eMC® prevent the formation of hydrogen sulphide, thus minimising malodours and counteracting pipe corrosion.

As the microorganisms also have the ability to survive independently for a period of time, they can withstand major flow fluctuations and there are no standstills in the treatment process. eMC®-Cleaner fluids are not only biodegradable, but with the help of the regenerative microorganisms, they accelerate the wastewater treatment process.

Irrespective of the area in which we decide to work with eMC®, we do the environment a favour and therefore, in the final analysis, ourselves.

eMC®-Cleaner contents

eMC®-Citrus Cleaner

Microorganisms
Alcohol
Citric acids
Molasses
Lemon essence
Lime oil, orange oil, pine oil, citronella

eMC®-Universal Cleaner

Microorganisms
Alcohol
Citric acids
Molasses
Lavender oil, orange oil
Grapefruit extract

eMC®-Kitchen Cleaner

Microorganisms
Alcohol
Citric acids
Molasses
Enzymes (amylases, proteases, lipases)
Eucalyptus Citriodora, pine needle oil, cedar needle oil
Grapefruit extract

eMC®-Power Cleaner

Microorganisms
Alcohol
Citric acids
Molasses
Enzymes (amylases, proteases, lipases)
Lemon essence
Lime oil, orange oil, pine oil, citronella