

KLB-SYSTEM EC 450 DECOR

Decorative and jointless mineral wall or floor coverings

KLB-SYSTEM EC 450 DECOR is a superior, modern trowel coating for designing creative, seamless floor or wall surfaces in Stucco Veneziano look. One of the special features is a high degree of uniqueness, as the system offers all options to set the scene for walls and floors: no two rooms will have the same design. The trowelling technique combines colour with a striking surface structure. While still fresh, the material is smoothed and structured or modelled in the desired look. This can either be realised tone-in-tone or in different colours. Depending on the workmanship, a trowelled wall or floor can appear calm or even lively.

The polymer-bound mineral design trowelling compound is suitable for wall or floor coverings in interior areas that require both a decorative appearance and good mechanical resistance, such as commercial spaces, exhibitions, museums, shops, foyers, private living rooms or modern loft flats. To further protect the fresh coating, a 2-component polyurethane top sealer is applied. This gives the flooring a robust, moisture-stable, easy-to-clean surface with very good stain resistance. Areas with wet exposure like bathrooms, showers or sanitary facilities can thus be (re)designed in a timeless and modern way.

The smooth and dense surface is easy to clean. However, to keep the design floors looking good, we would like to give you the following cleaning and maintenance recommendations.

Preventive measures

If possible, floor and wall coverings should only be installed after all other trades. Otherwise, the coating must be protected from damage while construction work is still in progress, but it must already be sufficiently dry and cured.

Clean run zones and dirt trap mats in front of entrances or in the door area can keep out much of the usual dirt. These must be planned for as part of the cleaning process. Because the less the coating is soiled, the less cleaning effort is required. Please note that only mats without plasticiser content may be used.

Maintenance cleaning on floors

Manual cleaning

Carrying out cleaning:

1. Loose dirt is removed by vacuuming, sweeping or wiping to bind dust (with gauze, fleece cloth).
2. Adhering, dried soiling can be eliminated by wet wiping, e.g. by the 1-step or 2-step wiping method.

For manual wet cleaning, please work with high-performance damp mop covers such as microfibre wipe covers to effectively loosen and remove the dirt. Squeeze the mop covers well to avoid the entry of too much moisture.

Important note: If too much water enters, it must be sucked out immediately and thoroughly with a water vacuum cleaner.

We recommend neutral to mildly alkaline, fast-drying floor or universal cleaners (pH value: 7-10.5) without any care components.

The dosages recommended by the detergent manufacturers must be observed. Both over- and under-dosing lead to undesirable cleaning results and surfactant residues.

Mechanical cleaning

During mechanical maintenance cleaning, the surfaces are regularly cleaned with a scrubbing machine or automatic scrubber dryer. Such machines, which scrub the floor and then pick up the liquid dirt or vacuum it straight away, are increasingly being used for large areas. They replace time-consuming wet mopping with bucket, mop cover and press.

With machines, it is important to consider wisely which pad or brush to use: for a flooring made of KLB-SYSTEM EC 450 DECOR, we recommend a super pad up to a maximum of the colour red, microfibre pads or soft brushes.

Neutral to mildly alkaline, low-foaming automatic cleaners (pH value: 7-10.5) should be used for machine-based maintenance cleaning. If the soiling is mainly greasy or oily, a mild alkaline cleaning agent is preferable.

Intensive cleaning on floors

This is a special measure to remove residues, e.g. of disinfectants or dirt and surfactants.

These soils are usually loosened with intensive or all-purpose cleaners in a higher concentrated cleaning solution with a scrubbing machine or automatic scrubber dryer.

Mechanical cleaning

Example for mechanical intensive cleaning using an automatic scrubber dryer:

1. After picking up the loose dirt by vacuuming, sweeping or mopping, larger particles such as dust or sand should have been cleared away.
2. During intensive cleaning with the automatic scrubber dryer or scrubbing machine, the heavily soiled floor is passed over and the cleaning liquid is distributed; after exposure time and subsequent scrubbing follows another pass over the surface and suctioning.

Here too, it is important to consider wisely which pad or brush to use: we recommend a super pad up to a maximum of the colour red, high-performance microfibre pads or soft brushes.

These pads must be turned regularly or replaced if necessary. Edges, corners, borders and places that are inaccessible to the machine must be finished manually with a hand pad.

Low-foaming, low-solvent automatic cleansers with a pH value of max. 12 should be used for machine-based intensive cleaning.

Finishing / Surface protection

It is not recommended to apply a care product on top of floors made with KLB-SYSTEM EC 450 DECOR. In general, the application of such a maintenance sealer is not suitable for higher mechanical stress or in rooms with high moisture loads.

Maintenance cleaning on walls and floors in wet-loaded areas such as sanitary facilities

The decorative mineral trowelling compound is suitable for wet-loaded surfaces such as in bathrooms, showers or sanitary facilities. It can be used on both walls and floors. Cleanliness and hygiene are particularly important in these areas: they can be ensured in the long term thanks to a comprehensive, high-quality, jointless system solution with KLB-SYSTEM EC 450 DECOR. The sealed, smooth and closed surface is easy to clean.

The hygienic condition of toilets is often an indicator for other rooms, especially in public buildings. However, to keep the design floors looking good and clean, we would like to give you the following cleaning and maintenance recommendations.

Carrying out cleaning:

In the area of walls and washbasins, it is advisable to clean from the less dirty surfaces to the dirtier ones, always from top to bottom.

An all-purpose, neutral or mild sanitary cleaner as well as a microfibre cloth, non-scratch hand cleaning pad or sponge can be used for cleaning. Regular cleaning will generally prevent limescale deposits. The cleaned surfaces should always be rinsed with clear water and dried with a lint-free cloth. Do not use detergents with abrasive or aggressive ingredients, e.g. concentrated sanitary cleaners.

Limescale deposits on walls or floors in wet areas should be removed with mildly acidic sanitary cleaners with a maximum pH value of 2 in concentrate.

Important note: Avoid using chlorine-based cleaners or detergents containing hydrochloric, formic or acetic acid, as these can also damage the surfaces of built-in furniture and pose a health risk.

When using a spray cleaner, it should be sprayed onto the cloth and not directly onto the floor.

For larger vertical surfaces, e.g. shower walls, cleaning can be done by generating foam with appropriate spraying equipment or bottles. The advantage of such foam cleaning is that the contact time and adhesion maximise cleaning efficiency. It also provides visual control so that one can see which areas have already been cleaned. Foam prevents the formation of aerosols during cleaning and is considered to be gentle on materials. Surfaces are always rinsed with clear water and, if necessary, wiped with a shower wiper, then dried with a lint-free cloth.

Before manual wet cleaning, remove loose dirt from the floors by vacuuming, sweeping or wiping to bind dust and get rid of stubborn soiling. This is done with the 1-step or 2-step wiping method.

For manual wet cleaning, please work with high-performance damp mop covers such as microfibre wipe covers to effectively loosen the dirt from the surface. Squeeze the mop covers well to avoid the entry of too much moisture.

Important note: If too much water enters, it must be sucked out thoroughly with a water vacuum cleaner.

Mechanical intensive cleaning of floors in wet-loaded areas such as sanitary facilities

This is a special measure to remove build-up residues, e.g. of lime or dirt.

These soils are usually loosened with intensive, all-purpose or sanitary cleaners in a higher concentrated cleaning solution and by alternating between alkaline or acidic detergents using appropriate machines.

During mechanical intensive cleaning, e.g. on floors, the surfaces are cleaned with a scrubbing machine or automatic scrubber dryer.

The choice of machine should be adapted to the size of the sanitary area.

Also with this cleaning method, it is important to consider wisely which pad or brush to use: for a flooring made of KLB-SYSTEM EC 450 DECOR, we recommend a super pad up to a maximum of the colour red, microfibre pads or soft brushes.

These pads must be turned regularly or replaced if necessary. Edges, corners, borders and places that are inaccessible to the machine must be finished manually with a hand pad.

For machine intensive cleaning, we suggest acid cleaners up to a maximum pH value of 2 to remove limescale deposits.

If the soiling is greasy or oily, an alkaline automatic detergent with a pH value of 9-12 is preferable. Alternating the use of these two types of cleaner often leads to a better cleaning result.

A few more notes:

- Make sure you know what is happening on your floor and which cleaning method is suitable.
- With the wrong cleaning measures, problems with hygiene or slippage as well as deterioration in the appearance and quality of the flooring can occur due to increased dirt accumulation. Cleaning shall be carried out in accordance with the recognised rules of facility cleaning and taking into account the possibilities currently available.
- Stain removal: Unusual stains, such as paint, plaster, rust, tar, chewing gum, oil-based paints, varnishes, etc., are just as difficult and often impossible to remove without residue, as with other conventional floor coverings. We recommend that all work that could lead to such contamination is carried out before the flooring is installed. Stains caused by strongly discolouring liquids should be wiped away as soon as possible.
- As an additional protective measure in public facilities, it is recommended to use furniture castors type W according to DIN EN 425 (based on DIN EN 12529) or to provide chair castor pads at office workplaces. Like the floor covering itself, the castors and glides need to be cleaned regularly and checked for proper functioning.
- To avoid damage to the floor when moving the furniture in and out, we recommend placing felt glides underneath, especially for chairs and other objects with contact to the coating.
- Talk to your cleaning company or the manufacturer of your cleaning products / machines about this cleaning recommendation.
- The concentrations and the maximum exposure time of cleaners should always be coordinated and adhered to.
- If pure sanitary cleaner is spilled, it must be absorbed immediately to avoid material damage. Do not allow to dry.

- A list of suitable cleaners can be requested from KLB Kötzthal. For more details on the dosages of the listed cleansers, see the manufacturers' websites.
- We accept no liability for the execution of the cleaning, the detergents and care products used or their mode of action, nor for the fulfilment of what is expected from them

We hope that this has provided you with sufficient information on how to clean floor or wall coverings that have been designed with our KLB-SYSTEM EC 450 DECOR and wish you much pleasure with this design trowel coating.

By handing over these cleaning and maintenance instructions, the floor installer fulfils his obligation according to DIN-VOB 18365 Flooring works. The recognised rules of craftsmanship as well as the current state of the art shall apply.



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