

C-GUARD®

Two-component epoxy water vapour permeable paint for concrete

Epoxy floor coating for garages

Field of application:

C-guard® is designed to be used only for concrete surfaces in closed spaces. It is especially adjusted to loadings in garages (excellent chemical and mechanical resistance). It can also be used in basements, warehouses and as a wall coating on more load-bearing surfaces.

Characteristics:

- resistance to hot tyre stains, maximum chemical and mechanical properties
- easy maintenance and a professional surface appearance
- water vapour permeable
- fast and low-cost solution with optimal characteristics
- only one application needed

The package contains:

Two-component epoxy steam-permeable paint for concrete, concentrated cleaner, brush, roller, mixing stick, detailed instructions and installation DVD.

Before you start working, read the instructions very carefully and view DVD!

SURFACE PREPARATION

The concrete or cement surface must be clean, without any particles of dust. Grease and oil stains must be removed from the surface. In the package there is also enclosed a detergent for use on concrete in the form of a powder. Dissolve it in 8 litres of water and mix it well. For easy application of the detergent onto the surface, you can use a watering can. Dampen the surface slightly with water – remove the remaining water with a sponge or a cloth. Apply the detergent mixture over a 50 x 50cm surface. Rub it hard with a stiff brush, to remove the dust and the dirt. After brushing, wash the surface thoroughly using an absorbent sponge to remove the dirt from the surface. Repeat this procedure twice before you move to the next surface. Finally the entire garage floor has to be washed and cleaned with clean water, so that the cleaner is entirely removed. You can also use a water vacuum cleaner. Test to see how clean the surface is by touching it with your fingertips, if they appear to be still dirty, repeat the cleaning operation again.

Warning: If the floors are not thoroughly cleaned and washed, the adhesion of the paint will not be good. Good surface preparation is of crucial importance for an excellent end result.

PAINT PREPARATION

Mixing ratio: C-Guard® Part A: C-Guard® Part B = 5 : 1 (by weight), usability of the mixture at 20° C is 2 hours. Mix C-Guard® A thoroughly (homogenise) before you add C-Guard® B. The mixture must be mixed for at least 3 minutes. Before applying (after mixing) wait for an adequate time (according to the temperature – check the table) and mix once again. In case of using more than one package, do not mix larger amounts at the same time. You only need to apply it once.

Warning: The mixture must be used within the maximum pot life. The end of pot life will be indicated by a visible increase of paint viscosity. Do not dilute the paint, because it is not useable after the open time has expired. Do not mix decorative flakes with the paint.

APPLICATION

You can paint the lower part of the wall as a border with a synthetic brush. With the enclosed roller apply the C-Guard® in 1m wide bands, so that you can easily and evenly spread the decorative flakes (if you wish) on the freshly painted (wet) surface. The new area must be painted before the previously painted area is dry, so that the new area blends well with the previous area and the join is not visible. In order to make a highly durable film over colour flakes you can apply a colourless epoxy 2K coating C-Guard® CL.

Drying time: The surface can be walked on 24 hours after application. Light loadings are possible 2-3 days after application, perfectly binding is after 7 days and then the surface is ready for maximum loading (such as parking the car). The temperature and the humidity influence the actual drying time.

Cleaning: Clean tools and equipment immediately after use with warm water and a mild detergent. Leave products which have not been used up, to harden in the packing and discard in compliance with local legislation.

Theoretical consumption: 200-300g/m². Squeeze the roller hard in order to make a thin film layer. Every package contains enough paint to cover 20-25m² of smooth, clean concrete (average garage for one car). Rough or porous concrete surfaces may need more material. Each package contains enough material to cover between 10 and 20m² of such surfaces.

Air temperature (material):	Making borders with brush:	Applying with roller:	Open time:
15° C	20 min after mixing	30 min after mixing	3 hours
20° C	10 min after mixing	15 min after mixing	2 hours
25° C	right after mixing	10 min after mixing	1 hour

For the best results, DO NOT PAINT UNDER THE FOLLOWING CONDITIONS:

Badly adhered layer of previous coatings – if the concrete has already been painted, remove the badly adhered paint by sanding or brushing with a wire brush. On the remaining surface do the next test:

1. with a "Stanley" knife make an incision in the shape of an X through the film coating to the concrete
2. paste adhesive tape over the X and squeeze it hard onto the surface
3. remove the tape with one strong pull
4. if more than one fifth of the surface, which has been pasted over is removed, then the adhesion of the paint is not good

Before painting with C-guard®, the old paint layer needs to be removed by sanding or by using an adequate paint remover. If the adhesion of the old paint is good, it needs to be sanded (with a rough abrasive paper or a wire brush) over the whole surface, so that a good adhesion between the layers can be assured.

Friable or badly affected concrete and cement with a lime deposit - if the concrete is in a bad condition it breaks up easily, crumbles or if there is a lime deposit on the surface. The paint will not have optimal characteristics if the friable material and the dust are not removed, the lime deposit is not sanded off and the affected parts are not cleaned.

Humidity in concrete – if the concrete is dry (light grey colour) there will be no problems with the adhesion and stability of the paint. In the case of periodical humidity in the concrete (during heavy showers) it can evaporate through the paint film, as the paint is water vapour permeable. In case of constant humidity problems, however, the surface is not suitable for painting.

Concrete that has been previously protected against water absorption – if it is possible that the concrete has been previously protected with a hydrophobic agent, drip a small amount of water onto different concrete surfaces. If the drops are not absorbed by the concrete the concrete has been water-proofed and this could be the reason for bad paint adhesion.

C-guard® can not be used on surfaces which are directly exposed to sun light. New concrete must dry for at least 28 days before applying the coating. The air temperature must be between 15° and 30°C and the relative air humidity under 80%. The concrete floor takes a long time to warm up; this is why you must make sure that the air temperature is at least 15° C on the day before painting. The minimum floor temperature for painting should be 15°C, maximum 25°C.

The original unopened packaging must be stored in a cool (under 25°C), dry and airy place. The storage temperature must not drop below +5°C.