

DEKO BETON

Solution that chemically reacts with cured concrete to produce permanent, decorative color effects.

Field of application:

Formulated as decorative concrete coating. DEKO BETON chemically reacts with the surface of cured concrete to produce unique and permanent coloring effects, that reflect the concrete texture.

DEKO BETON creates uneven, color effect, which looks like natural stone or aged appearance of the structure. It's used for decoration of indoor and outdoor floors and walls surfaces, but also for prefabricated concrete elements. The coloring is unique to each concrete surface and cannot be reached with another coloring products.

Using this coloring technology the concrete floor and wall substrates get natural coloring, which fits the environmental ambience. For public buildings, this final coating can be upgrade with unique colorful and shiny effects, which are easy to maintain. For designers this coloring technology can offer special designs.

The color of chemically stained concrete is superior in durability and abrasion resistance to that of concrete surfaces coated with other coloring products. Due to their chemical reaction with concrete, colors become part of the surface without developing a film.

Substrate preparation:

Before the application, it is recommended to apply the material on a test field of the surface, to be able to see the coloring effect. Concrete flatwork must have a uniformly surface. Surrounding areas or elements, which shouldn't be colored, should be protected with tapes and plastic foil.

The weather conditions influence the coloring effect of the product. High temperatures and wind dry the coating fast, that require extra layers to achieve the effects. Also, the application on low temperatures (<10°C) will affect the coloring of the concrete surface. During the application it's recommended to carry the surface of rain, or other water input, to prevent coloring of the surrounding surfaces.

Concrete substrate should be sound, clean, free of dust and oils. Existing coatings (paint, impregnation, polish, concrete curing coating) should be removed mechanically. Prior the application the concrete surface should be cleaned using water and cleaning agents. Acids are not allowed for cleaning the surface, because they remove the useful reagents of the concrete.

Before the application, the substrate should be tested by applying water with brush or roller and it should be absorbed into the concrete. The fields of the substrate, where the water won't penetrate should be treated again, as described above.

New concrete substrate should be cured at least 14 days, without curing coatings, which means using conventional curing methods of watering the surface or covering it with wet fabrics.

Application:

The substrate must be sound, dry and prepared according to the recommendations given in the Substrate preparation chapter. The temperature of the concrete substrate should be between 10-30°C. Product should not be spilled on the floor, but it should be applied with plastic sprinkler, brush or roller. It's recommended one person to apply the material uniformly on the surface, while other person follows him by rubbing it into the concrete, using brush. It's not recommended to recoat the substrate, while the existing layer is fresh. When the application has been stand by, and it's continuing, it's recommended to overcoat the wet edges of the existing coat, to prevent visible lines between the fields. Walking on fresh applied coating is not allowed. When applied on walls, the application starts from the lowest point, continuing to the top. Drying time, including the necessary time for the chemical reaction depends of concrete porosity and weather conditions. According to the weather conditions the covering needs at least 4 hours to get the coloring effect. During this period it must not be exposed to water. Before the application of the new layer or finishing layer Deko Sil, the surface should be cleaned with water.

Washing:

After the final application of Deko Beton and the period of 4 hours to get the coloring effects, it should be cleaned several times with pure water to remove the dissolved salts. While washing, it's recommended to rub the surface with brush, or by using floor washing machine with rotating brushes.

Impregnation:

After the washing, surfaces treated with Deko beton could be impregnated with Deko Sil. Impregnation must be applied on dry concrete substrate. The final coloring effect can be visualized after Deko Sil is completely dry.

Consumtion:

Coverage will vary widely depending on different factors: porosity and texture of the surface, structure and age of the concrete, preparation and application techniques, number of applied layers, and other circumstances. The coverage rate is approximately 0,2-0,3 kg/m² per application. Precise coverage rate can be determined by applying test fields on the certain substrate.

Color Effects:

Deko Beton is available in two standard colors, according to the Standard Color Card. The coloring is unique to each concrete surface and it can vary from the one in the color card. Before the application, it's recommended to make testing field of the system, applied on the certain substrate, to visualize the coloring effect and the consumption of the materials. Old concrete substrates can decrease the coloring effect. According to the geology of the aggregate, used in the concrete mixture, Deco Beton can color it, when applied on the concrete substrate with visible aggregate.

Packing:

DEKO BETON is available in plastic containers of 5 and 20kg.

Storage:

In original closed packing, on temperatures between 10-35°C, protected of direct sun light. Shelf life: 9 months.

Health hazard:

The products contain reactive constituents which in unbound condition partially harmfully affect the health. Use appropriate protective equipment. If the material has been splashed on the skin or into the eyes, they should be immediately rinsed with pure flowing water. In case it has been swallowed, it is necessary to ask for medical assistance.

Fire: DEKO-Beton does not contain flammable ingredients.

Cleaning and discarding:

Cleaning of loose residues of DEKO BETON is performed with water. The old and used packing should be discarded in accordance with the local relevant regulations for that kind of waste.

We recommend for the way of application and required quantities to be adjusted to the conditions of works, as well as use of appropriate equipment.