Dye for subsequent coloring of cementitious surfaces

Description
OBTEGO® Concrete Dye comes as a ready to use product in liquid form. The product is used as for subsequent coloring of cementitious surfaces. The product was especially developed for diamond-polished concrete and is designated for interior use.

Properties
OBTEGO® Concrete Dye penetrates deep into the surface and forms a bond with the concrete. A uniform wetting of the surface ensures a homogeneous appearance. The product effects like a glaze. Structures or aggregates are still visible and are not covered as with a paint.

OBTEGO® Concrete Dye is part of a system with OBTEGO silicates and impregnators. The product meets the European VOC requirements and does not have to be mixed with acetone like many other dyes. OBTEGO® Concrete Dye is available in 9 standard colors. Other colors on request.

Application
OBTEGO® Concrete Dye can be used on almost all cementitious surfaces. Main application are grinded/polished concrete floors as well as power trowelled concrete and cement screeds. Fields of application are e.g. industrial floors in commercial buildings, market halls, logistics centers, supermarkets, and much more.

Note: New concrete must cure for at least 28 days before application. Not intended for exterior applications. Due to different applications, cleaning and maintenance, as well as different types of concrete, the appearance may change over time. Application on polymer-modified concrete floors works maybe only limited, due to less penetration into the surface and less bonding reactivity with the substrate.

We recommend the use in the system with OBTEGO products. Use with other manufacturers' products (other silicates, impregnations and sealants) is possible, but we cannot assure same appearance and longevity.

Processing
The surface to be treated must be dry and free from impurities (residual moisture <5%). As long as existing remove curing agents, oils, greases, etc. from the surfaces by grinding or with other method. This also applies to old concrete floors on which previously other material has been applied. The product is ready to use mixed. It is recommended to create a sample surface of the same substrate to check consumption and color. If a lighter shade is desired, a special thinner is available upon request. **Do not dilute the product with water, acetone or other solvents!**

Note!
In case of a highly absorbent floor surfaces, it is recommended to apply a densifier before applying the OBTEGO Concrete Dye in order to minimize the absorption of the floor. The densification is also recommended if the floor has a poor scratch resistance. (e.g. use OBTEGO silicate P-2 or P-3).

Application of the dye e.g. on a fine polished concrete surface

1. Grind up to 200-grit (resin bond diamonds).

2. Remove all dust and debris with vacuum cleaner. Wash surface with auto-scrubber machine and let surface dry up completely.

3. Apply OBTEGO® Concrete Dye with a pump sprayer and a suitable spray nozzle uniform to the surface (avoid puddles). Use a microfiber mop and wipe in overlapping circular motion. Depending on the absorbency of the substrate, the consumption may vary (approx. 50-60 ml / m²).

4. Allow the surface to dry completely. If it comes to application lines in the overlapping areas, then in most cases too less OBTEGO Concrete Dye has been applied.

5. Polish surface with 400-grit (resin bond diamonds). (Steps 5 and 6 can be omitted for power trowelled or non-polished surfaces, depending on the desired surface finish.)

6. So far desired polish up to (e.g. 800-grit, 1.500-grit or 3.000-grit).

7. If a more intense color is desired, apply OBTEGO® Concrete Dye as described in step 3, otherwise go ahead with step 10.

8. Allow the surface to dry completely.

9. Wipe with a white rag across the surface if color excesses are present. A slight discoloration of the rag is allowed, but no strong discoloration. If color excesses are present, they must be washed off with an auto-scrubber machine and white pad.

10. Wash surface with auto-scrubber machine and let surface dry up completely.

11. Apply an OBTEGO protection (e.g. OBTEGO R-50 or R-400) in accordance to manufacturer's instructions.

Note: Protect adjacent surfaces and objects against splashes. **Attention! The dye is very intense and cannot be removed e.g. from clothing or other absorbent surfaces.** Clean the equipment with OBTEGO cleaning solution or isopropanol (2-propanol). Do not use water for cleaning. It is generally recommended to clean the pressure sprayer immediately after use in order to avoid discoloration in the device.

Processing temperature
Avoid direct sunlight during processing. The temperature of the surfaces to be treated should be between about 5 ° C and 35 ° C. Switch off floor heating if necessary. Avoid direct exposure to moisture until complete curing of the subsequent impregnation or sealing.

Drying time
The drying time after application of OBTEGO® Concrete Dye depends on the on-site conditions such as the absorbency of the substrate, temperature, air humidity and air circulation. As experience, the drying time is about 1 hour.

Productiveness
Depending on the absorbency and the desired colour intensity, the following values are to be assumed. For a first application about 50-60 ml / m². When applying twice, approx. 100 ml/m² (in total). Therefore, the coverage of one liter is 10-20 m² (= 100-200 sq ft). The values given are approximate values and correspond to our experience. We generally recommend to create a sample surface of the same substrate for the purposes of coloring and consumption.

Storage
Protect from frost. Store locked in a dry place. Process opened containers as soon as possible. Keep container cool and sealed. Storage at a dark place for 12 months.

Environmental Protection
Not empty into drains. WGK 2-3 (hazard to water – severe hazard to water, see safety data sheet).
Waste codes/waste designations according to EWC/AVV. 08 01 11*
Waste from MFSU and removal of paint and varnish: paint and varnish waste containing organic solvents or other dangerous substances. (*Evidence for disposal must be provided.) Disposal according to official regulations. Completely emptied packaging can be recycled.

Security
OBTEGO® Concrete Dye is harmless to health after drying. Ventilate during and after processing. When spraying, special safety measures must be observed. Safety data sheet available on request for professional users.

Ingredients: Dyes, UV absorbers, Dibasic esters.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]. Contains methyl 1,2,2,6,6-pentamethyl-4piperidyl sebacate, bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects. Contaminated work clothing should be not allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Identification marking for transportation:

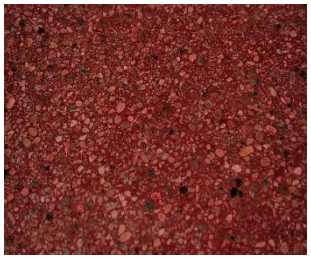
PU	PU-marking	Transport documents
a	n.a.	n.a.

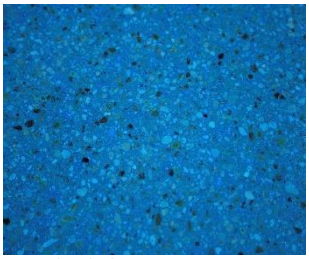
Packaging Unit (PU)
a) 10 l Canister

This information should only be a non-binding advice. The use of the products is based on local circumstances and on the surface itself . If there is no experience, and in cases of doubt, we recommend to try the product on a inconspicuous spot.

GOLDEN YELLOW

ORANGE


RED


TURQUOISE

BLUE

GREEN

BROWN

BLACK

GREY