

Safer tunnels



**CemPro
Whitecoat**

CemPro Whitecoat – the logical choice



The EU has now come with requirements for brightness in tunnels in the public roads. This can be solved by installation of more light in the tunnel or make tunnel walls lighter.

On this basis we have developed **CemPro Whitecoat** * for this purpose.

CemPro Whitecoat is a through coloured, cement-based product which has to be sprayed on the tunnel walls. The tunnel will be significantly lighter and make a very good optical effect for the user of the tunnels.

CemPro Whitecoat is to be used where you need a strong and washable surface.

CemPro Whitecoat delivers as a fiber-reinforced dry mortar in small or big bags. You only need to add water. CemPro AS may also be responsible for spraying the walls.

Benefis for **CemPro Whitecoat**:

- white and through coloured
- water repellent(droplet repulsive) effect
- vapour permeability
- prevents intrusion of salt, oil, dust etc
- to clean the surface use an ecological degreaser and high-pressure washer(as you wash a car)
- longevity, no discolouration
- withstand frost/defrost fluctuations
- carbonation retarding effect

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CemPro Whitecoat is as mentioned a cement-based material and can be sprayed on humid surfaces. The tunnel walls does not need not be dry.
Spraying the tunnels is performed in a continuous process, and requires limited close-down of the tunnels.

Pretreatment

The surface has to be cleaned before spraying. Larger cracks and other damage must be repaired. In order to ensure **CemPro Whitecoat** the necessary adhesion to the substrate, the surface must be free from all moveable granules, previously finishing, or anything that reduce the adhesion properties.

Mixing and spraying

CemPro Whitecoat mixes in a forced pan mixer until the mass becomes lump-free. Immediately after finishing the mixing process, the **CemPro Whitecoat** sprays on the tunnel walls with appropriate equipment.
One layer of 3 mm thickness is usually sufficient (max thickness 5 mm).

Cleaning after application

Adjacent areas in which not shall be covered with **CemPro Whitecoat** has to be cleaned (high pressure washed) immediately. Spilled material has to be and wiped / cleaned up.

Hardening

Applied only at temperatures above 5° C.
See the technical description of **CemPro Whitecoat**.



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Cleaning tunnels with CemPro Whitecoat

To clean the CemPro Whitecoat surface with dirt, salt, oil, dust etc you have to start with spraying a ecological degreaseant material and continue with high-pressure washing 150 bar. The same way as you wash a car without using brushes. .

We will point out an excerpt from a report from the Norwegian Public Roads Administration in Bergen regarding the cleaning of Agatunnelen (we did not use degreaser). The text is as follows:

"By studying the structure in the sprayed surface proved to be hard, full and not penetrated by particles from asphalt or diesel fuel. Apparently it was as white as when the tunnel was sprayed.

Therefor the experiment shows that the "coating" as used here is resistant and strong, remain clean and white only washing with high pressure cold/hot water, that the "road dust and dirt" does not "burn" to the surface and that it looks almost as newly established and does not need refreshing after the wash. "

Please contact us for further information.

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