



The active ingredients in Controll®Condeck consist of 99.5% colloidal silica, which means that the silicates are fragmented into nanoparticles under 10 nanometers in size. 1 gram of pure colloidal silica has a surface area of 240 m².

The high surface area enables excellent wetting and penetration.

This makes Controll®Condeck a very effective product to achieve hardening of the concrete surface as well as eliminating most dust problems and significantly improve the concrete's wear & tear resistance.

Controll®Condeck is also a very clean, environmentally friendly sealer that minimizes labor by shortening and simplifying post-processing where grinding or polishing is desired.



Condeck

High performance concrete protection

DESCRIPTION:

Controll®Condeck is an advanced, water-based colloidal silica solution specifically designed to enhance the surface density and hardness of slab concrete. Its ultra-fine particle size (10 nanometers) allows for deep penetration into the concrete, where it reacts with cement components to improve durability.

By increasing the concrete's abrasion resistance by over 35%, Controll® Condeck significantly enhances the longevity of new concrete surfaces while also reinforcing weathered concrete and preventing dust formation.

Unlike traditional synthetic surface systems, Controll®Condeck becomes an integral part of the concrete structure, providing a long-lasting solution that resists dissolving, flaking, and degradation. The product will form a tough, protective shell that guards against water, wear, and exposure to common chemicals.

Environmentally friendly and solvent-free (VOC-free), Controll®Condeck offers a cost-effective surface treatment that is both easy to maintain and clean.

While Controll®Condeck is effective as a stand-alone treatment, applying Controll®Innerseal beforehand is recommended for optimal performance in **high-traffic or heavy-duty environments* such as car parks, warehouses, agricultural facilities, and waste management areas. For added aesthetic appeal and stain protection, a final topcoat of Controll®SP can be applied.

GENERAL USE:

- Car parks
- Entrances
- Industrial areas
- Cargo terminals
- Factory floors
- Machinery rooms
- Exhibition halls
- Warehouses

*HEAVY DUTY AREAS:

- Agriculture
- Fisheries
- Biogas silos
- Freezers
- Wastewater plants
- Abattoirs
- Refuse facilities
- Harbour areas

Preparation:

The temperature during application and for the following 24 hours must be over +5° C. Avoid application in direct sunlight or strong heat.



FREEZING POINT:
0° C

FIRE:
Non-flammable

PACKAGING:
20 litre/ 1000 litre

STORAGE/SHELF-LIFE:
Cool, dark, closed container
36 months

CLEANING:
Tools: Water
Skin: Soap and water

COVERAGE:
0.1-0.2 l/m² depending on
the absorption rate of the
concrete substrate.

APPEARANCE:
Slightly cloudy liquid

VOC CONTENT:
0 g/l

pH: 10.5

DENSITY:
1.10 g/cm³



Controll®Condeck is delivered ready to use and must not be mixed with other liquids or diluted.

Ensure the concrete surface is clean and free from contaminants like curing compounds, bond breakers, release oils, dust, and debris.

Protect glass, aluminum and other polished or painted surfaces to prevent staining. In case of splashes, flush immediately with water.

Application:

1. Horizontal surfaces:

Pour Controll®Condeck directly onto the surface. Use a rubber squeegee, soft broom or mop to keep the sealer in motion enough to ensure full saturation for 20 minutes and to prevent dry patches. Any excess material that forms in puddles must be spread out on the floor with a broom or squeegee.

2. Vertical surfaces:

Use a low-pressure sprayer. Hold the spray tip 40-60 cm above the surface and move in a circular motion to ensure even distribution. Apply enough fluid to form an even sheen and ensure complete saturation. Keep the surface wet for 10-15 minutes by applying additional Controll® Condeck as needed.

Areas with higher porosity may require more product.

Treat the spray mist with caution as it can travel in the air causing damage to glass.

3. Drying

Allow the surface to dry for 2 hours before traffic is allowed.

Full curing is achieved after 10 to 5 days.

DISTRIBUTION IN SPAIN:

WATERPROOF TECHNOLOGY FOR CONCRETE, S.L

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Playa de San Juan, Alicante

EXTRACT FROM DECLARATION OF PERFORMANCE:

Depth of penetration :	Class I >5 mm
Abrasion resistance:	> 30 %
Permeability:	W < 0.1 kg/m ²
Impact resistance:	Class III: >20 Nm
Adhesion strenght (pull off):	3.0 N/mm ²
Reaction to fire:	Euro class 1 fireproof
Dangerous substance compliance:	5.4 /No requirements



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Surface protection
systems for concrete

Impregnation

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