

WATER GLASS DEEP IMPREGNATION (WASSERGLAS-TIEFENIMPRÄGNIERUNG) for the PROTECTION of CONCRETE sustained and eco-friendly

CPS-BETON
Concrete Penetration System
MADE IN AUSTRIA

TECHNICAL DATA SHEET

**Sustainable deep penetrating concrete impregnation
Permanent eco-friendly protection of concrete**

CPS-BETON is a water glass-sodium silicate with a special organic catalyst
CPS-BETON penetrates up to 35 mm in the concrete and glazes the pores.

corrosion-resistant and aging resistant

By **CPS-BETON** the concrete is sealed permanently and protected against chemical attacks like for example hydrogen sulfide (sulfat), salts (chlorides) etc. The surface becomes also resistant against scraping and the cycle from frost to dew

CPS-BETON Concrete Penetration System

LICENSES AND CHECKING:

- CE-mark according EN 1504-2
 - performance declaration UT 1709
 - ÖVGW no. W 1.746 (drinking water approval)
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CPS-BETON Concrete Penetration System - **CHARACTERISTICS**

resistant to

- cycle from frost to dew
 - hydrogen sulfide corrosion ph > 2,5
 - salts (chlorides)
 - splitting water pressure until 10 bar
 - fire protection class A
 - no scraping
 - increased tensile strength > 1,5
 - increased abrasion resistance
 - colorless and odorless
 - eco-friendly
 - non-toxic
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CPS-BETON Concrete Penetration System - FIELD OF APPLICATION

- underground parking garage/ car parks
- hall floors/ industrial flooring
- bridges / retaining walls
- foundations / walls in the earth area / cellar
- collectors / concrete pipes / concrete chambers
- sewage plants/ biogas facilities
- drinking water container / swelling collecting shafts
- airports / railway station

CPS-BETON Concrete Penetration System - PROCESSING

Before using CPS-BETON it's important to read the label of the packaging as well as the security data sheet carefully and accordingly only then start processing. The temperature of outside and concrete surface must be at least +5 degrees. Before opening the containers or canisters shake well or stir. All concrete surfaces to be impregnated must be free from dirt, oil, dust, grease etc. We recommend to clean the concrete surfaces before using CPS-BETON by high pressure cleaner (kärcher) (about 150 bar). Before the surface is completely dried apply CPS-BETON at least twice „wet to wet“ to the damp surface until the saturation is reached. A low-pressure syringe, a brush or a roller is used for the application. Remove any excess material (puddles) from the concrete surface immediately before it becomes vitrified. Floor areas are already passable after approx. 1 hour. The total curing time is approximately 28 days, for drinking water containers approx. 35 days.

Packaging units: 1 litre of bottle / 10, 25 or 200 litres of canister / 1000 litres of barrel

Technical data:

Form:	clear and colorless liquid
Flash point:	non-flammable
Specific weight:	1,01 – 1,10
Smell:	odorless
Toxicity:	non-toxic
To use	UNDILUTED

∅ rate of consumption approx. 0,3l/m² at applying twice

WATER GLASS DEEP IMPREGNATION

Waterglass-sodium silicate with an organic catalyst

CPS-BETON

Concrete Penetration System

HALLS

storage halls
industry halls / production halls
firefighter halls / workshop halls
salt storage halls / road maintenance departments

UNDERGROUND GARAGES

car parks
carports

RAILWAY STATIONS

platform / platform edges
light pole foundation

COLLECTORS

tube channels / frame profiles
channel bays / pumping stations

GAS STATION

washing places

PLACES

city hall square
public places
grill places

SEWAGE PLANTS

sewage reservoir

ROAD UNDERPASS

pedestrian underpass

DRINKING WATER STORAGE

fountains

AIRPORTS

RETAINING WALLS

city walls
walls in the earth area

POWER STATIONS

dams

SUBWAYS