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Product Description

World Series Proof protects against damp related damage by stopping the penetration of water and other liquids. The protection is open to diffusion and permanent.

Water is the cause of most damage to concrete and plaster. Water carries with it contaminants and chlorides that cause corrosion in concrete reinforcement, frost shattering, efflorescence and weathering. World Series Proof prevents the ingress of liquids and reinforces weathering material in one single treatment.

World Series Proof penetrates deep into the capillaries, micro-cracks and pores. A reaction then takes place between salts and minerals to form a very hard calcium silicate hydride. This results in a crystalline structure that stops the transport of water but lets vapours pass through (diffusion). Because the protection is deeply seated, it is insensitive to external influences such as abrasion and impacts.

The surface does not become water repellent (hydrophobic) and can be coated, for example, with plaster or concrete. If a water repellent surface is wanted or for concrete surfaces that are subjected to heavy wear and tear or aggressive liquids we recommend a combined treatment using World Series Close.

Areas of use:

Concrete and plaster
Roads, bridges, tunnels
Basins, water & sewerage systems
Industrial and warehouse floors
Foundations and slabs
Marine environments
Façades, cellars, walls
Balconies, stairs

Benefits:

Environmentally friendly
Open for diffusion
Acid resistant
One-off treatment
Increase the lifespan
Reduces the need for maintenance
Binds dust
Easier to keep clean

Performance tested and approved in accordance with:

EN 1504-2+ (SP/CBI) Products and systems for the protection and repair of concrete structures – Surface protection systems for concrete

Life-365 / Nordtest NT-Build 492

Chloride protection - Reinforced concrete is given 3 times longer useful life

DIN 11622-2 (TÜV)

Chemical resistance for waste and biogas plants

EN ISO 12873-2: 2005 (AQUALOGY LABAQUA)

Approved for use in direct contact with potable water up to 70°C

Nuclear power stations (VATTENFALL)

Class: Green 2, including usage in WetWell (reactor containment)

Very exposed areas:

In combination with surface hardener World Series Close

Car parks and garages
Vehicle washing stations
Sewage Treatment Plants
Freezer rooms
Agriculture
Biogas silos
Sawmills, paper mills
Recycling and waste facilities

1504-2 System 2+



Life-365 Service Life Prediction Model™ for reinforced concrete exposed to chlorides

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APPLICATION

World Series Proof is delivered ready to use and must not be mixed with other liquids or diluted. Shake the container before use. The surface to be treated must be free of dust, paint, grease or any other coating that may obstruct the substrate's absorption.

Damage and visible cracks (>1.0mm) must be repaired prior to treatment. Protect glass, aluminium and other polished or painted surfaces to prevent etching. In the case of splashes, flush immediately with water and, where necessary, clean with acid.

The temperature during application and for the following 24 hours must be $\geq +5^{\circ}$ C. Avoid application in direct sunlight.

Apply with a low pressure spray or impregnation roller and carry out wet-in-wet at least twice with approx. 5-15 min between application, until full saturation is attained. Treat the spray mist with caution as it can travel long distances and cause damage to glass.

On horizontal concrete surfaces, World Series Proof can be poured out and kept in motion with a rubber squeegee, brush or polish mop. Prevent dry patches from forming during treatment. Full saturation is attained after approx. 30-40 min. Stop when the World Series Proof starts to "gel", which usually occurs sooner on new concrete. Remove excess, otherwise shiny or white patches may form and impair the adhesion for another coating. For brick façades, specific regulations apply, and application may only be performed by certified personnel.

DRYING TIME

Ready for foot traffic after approx. 2 hour. Can be exposed to water after 6 hour and heavier traffic after 24 hour. Full resistance to aggressive liquids is attained after 36 days.

COVERAGE

0.2-0.4 l/m² depending on the absorptive capacity of the substrate and the penetration depth required. Perform a test to estimate the coverage.

CLEANING

Tools: water of acidic solution. Skin: soap and water.

MAINTENANCE

Do not use cleaners with pH < 7.

For floors, soap for concrete containing silicates is recommended.

HEALTH & SAFETY

Use only in well-ventilated areas. Protect airways against the spray mist, which can cause irritation. There are no known harmful effects but we recommend wearing gloves and goggles during application. Read carefully the safety data sheet prior to starting work.

ENVIRONMENT CERTIFICATE / ASSESSMENTS

Recommended by Scandinavian Byggvarubedömningen (Green Building Material Assessment) and SundaHus.

ECO Institute: Free from VOC, carcinogens, mutagens and substances hazardous to reproduction.

EN ISO 12873-2: 2005 For use in direct contact with potable water up to 70^o C. (*Influence of materials on water intended for human consumption, Influence of migration. Part 2*)

CE MARKING EN 1504-2:2004, SYSTEM 2+:

Products and systems for the protection and repair of concrete structures - part 2: Surface protection products for concrete, table: ZA.1b / ZA.1c

Extract from declaration of performance:

Depth of penetration 17 mm
Abrasion resistance. > 30%
Permeability. W < 0.1 kg/m²h^{0.5}
Impact resistance Class II: >10 Nm
Adhesion strength (pull off). 3.0 N/mm²
Reaction to fire Euro class 1 (fireproof)
Dangerous substances comply
with 5.4 / No requirements

PRODUCT DATA:

Appearance. Slightly cloudy liquid
Active ingredients Sodium and potassium silicate
pH 11.4
VOC content 0 g/l
Density. 1.135 g/cm³
Flash point. Missing
Freezing point 0° C
Fire Non-flammable
Packaging 20 l / 1000 l
Storage/shelf-life Cool, dark / > 36 months.