FIRETEX® CONCRETE WB

FIRE PROTECTIVE COATING FOR INTERIOR CONCRETE STRUCTURES

Simple – Fast – Safe

Concrete itself does not burn. Still, high temperatures can lead to changes in the material. In this case, concrete loses its insulating function and the reinforcing steel is exposed to critical temperatures.

Our thin film, water-based intumescent coating **FIRETEX Concrete WB** reduces the heat transfer into the steel reinforcement and is particularly suitable for buildings where fire protection retrofitting is necessary due to a change of use or inventory.

Benefits

Easy-to-use
Fast, economic and space-saving solution where refurbishment or change of use requires increased fire resistance

Ecological
Low VOC content of < 1 %; emission evaluation for German AgBB and French VOC meets classification A+.

Safe
Does not increase weight, prevents spalling for up to 120 minutes (in case of C90/105 up to 90 minutes).

Measurable
Non-destructive determination of the dry film thickness by using an innovative method.

Economical
Application directly to the surface without the need of a primer or mesh using lowest material consumption.

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WATER-BASED 1-PACK FIRE PROTECTIVE COATING FOR INTERIOR USE

The fire protective coating **FIRETEX® Concrete WB** can be applied directly to the concrete surface by hand or by airless spraying, without the need of a primer or mesh. In the event of fire it forms a thermally insulating layer. This prevents the concrete structure from spalling and delays the heat transfer into the steel reinforcement.

SYSTEM INFORMATION

0 Substrate: Reinforced concrete

1 Optional: Repair mortar

2 **FIRETEX Concrete WB**
Intumescent coating

3 Optional: Colour topcoat

FIRE RESISTANCE UP TO 180 MINUTES

Columns and beams

R30 > R60 > R90 > R120 > R180

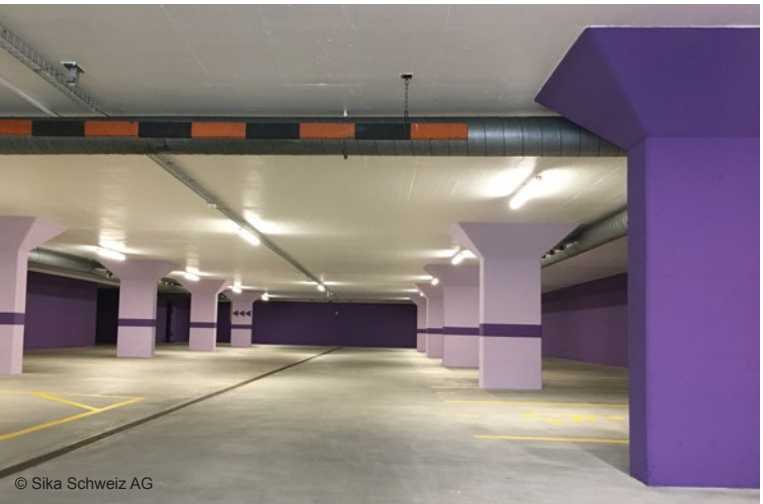
Ceiling and walls

Colour design possibilities with a topcoat

FIRETEX Concrete WB enhances fire protection requirements and, if desired, a top coat enables a decorative, coloured design. This does not impair the thermally insulating layer underneath.

Compatible with repair mortars

Prior to the application of the fire protective coating, any damage to the concrete surface must be repaired. Repair mortars do not impair the function of the intumescent coating. This has been tested and verified in independent fire tests. Therefore, the newly developed FIRETEX Concrete WB is suitable for the renovation or change of use of concrete structures.



CASE STUDIES

DEPARTMENT STORE IN MÜHLHEIM

In the former 'Woolworth House' in the city centre of Mühlheim an der Ruhr, the fire protection of the concrete ceiling had to be upgraded without loading the weight.

The depth of the ceiling did not comply to the building code and consequently could not protect the reinforcing steel to R60. The solution: **FIRETEX® Concrete WB**. Besides the concrete structe, the steel columns of the building were also protected by Sherwin-Williams using Pyroplast® ST-100.

Measurement of the wet film layer thickness directly after the application.

RESTORATION OF AN UNDERGROUND CAR PARK IN ESCHEN

The fire protection of the underground car park at the Unterland school centre in Eschen, Principality of Liechtenstein, has been restored in 2019.

The concrete ceiling of the car park was coated with FIRETEX Concrete WB. Due to the simple processing and the possibility of colour design, the building owners chose the new fire protective coating from Sherwin-Williams.

Ceilings and columns freshly restorated with FIRETEX Concrete WB.

VIENNA AIRPORT

The concrete ceiling in Terminal 2 required a fire protection upgrade with a fire resistance class of R90.

Due to the effective properties of FIRETEX Concrete WB, the stakeholders involved opted for the water-based fire protective coating. It was applied to an area of approx. 6,500 m² using an airless spray application method.

FIRETEX Concrete WB was used on an area of approx. 6,500 m² of Terminal 2 at Vienna airport.

OUR COMPETENCE

In the development and production of our intumescent coatings we focus on high quality and sustainable solutions focused on the success of our costumers and the safety of people, buildings and the environment. Every batch of our fire protection coatings is fire tested before use.

WHEN EVERY SECOND COUNTS:

FIRETEX®, Unitherm® and Pyroplast® fire protective coating systems for

STEEL

WOOD

CONCRETE

CORROSION PROTECTION – PROVEN AND INNOVATIVE

In addition to fire protection, we are a trusted resource for the highest requirements in corrosion protection for many decades. With world-class industry subject matter expertise, unparalleled technical and specification service and unmatched regional commercial team support to our customers around the globe, we offer high-performance coating systems to help customers achieve smarter, time-tested asset protection.

We serve a wide array of markets across our rapidly growing international distribution footprint, including

- Steel structures
- Power supply
- Tank protection and chemistry
- Infrastructure
- Hydraulic steel structures
- Wind power

THE SHERWIN-WILLIAMS DIFFERENCE

Sherwin-Williams Protective & Marine delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe. Our broad portfolio of high-performance coatings and systems - including protective liquid and powder, fire protection and resinous flooring - excel at combating corrosion and help customers achieve smarter, time-tested asset protection. We serve a wide array of markets across our rapidly growing international distribution footprint, including Bridge & Highway, Energy, High Value Infrastructure, Manufacturing & Processing, Marine, Rail, Power and Water & Wastewater.

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