



Protective & Marine Coatings
Europe, Middle East, Africa & India

FIRETEX[®] FX5120
concrete

**Water-based fire protection
for concrete**

FIRETEX[®]

INTUMESCENT PASSIVE FIRE PROTECTION



FIRETEX® FX5120

Water-based fire protection for concrete

Innovation is a key guiding value of our business



Alongside its use as a proven intumescent coating for structural steel FIRETEX® FX5120 has now been approved under EN 13381 Part 3 for use on concrete structures.

To ensure the reinforced concrete solid slabs in buildings have required fire resistance ability, the slab thickness and the thickness of concrete covering the rebars must not be less than a minimum level in accordance with EN 1992-1 Part 2. In cases where the thickness of concrete cover to the rebars in a reinforced slab is deficient, it is necessary to address the fire resistance and this can be done by applying FIRETEX® FX5120.



INTUMESCENT PASSIVE
FIRE PROTECTION

Efficient and safe



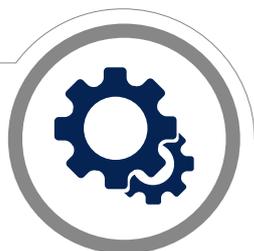
- 1.5mm of FIRETEX® FX5120 can enhance the fire resistance of a concrete structure by as much as 35mm of concrete.
- 2.5kg/m² of FIRETEX® FX5120 has equivalent fire resistance to around 85kg/m² of concrete.
- Non-toxic, non-hazardous, non-flammable. Other trades people can continue to work during application.
- Will not release fibres or cause dust.

Durable, excellent appearance



- Fast and easy application to the surface being protected.
- Substantially more resistant to mechanical damage than mineral fibre boards or sprayed mineral fibre products.
- Good cosmetic appearance compared to other systems like mineral fibre boards or sprayed mineral fibre products.

Technical information



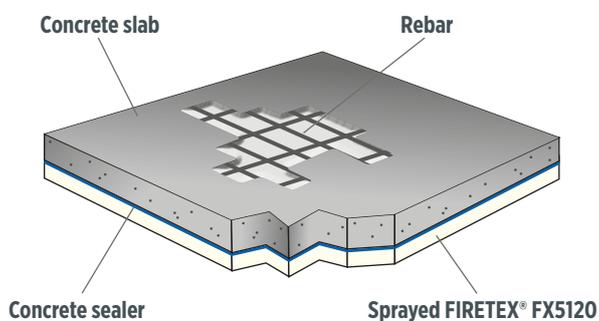
Recommended use:	Recommended for use by airless spray to provide fire resistance.
Fire protection:	Up to 60 minutes on concrete. Up to 120 minutes structural steel.
Certification:	Testing under EN13381 Part 3.
Durability:	C1 internal dry controlled environments without topcoat (ISO 12944-2:1988) and C2 internal semi controlled environments with topcoat (ISO 12944-2:1988).
Volume solids:	69+-3%.
Approved topcoats:	Sher-Cry™ M770, FIRETEX® M71V2, Acrolon™ C137V2, Acrolon™ C237.
Application:	Airless spray, brush.
WFT (µm):	Airless spray 1400 Brush 441.
DFT (µm):	Airless spray 1000* Brush 300.
Time to touch dry:	5hrs @ 15°C, 3hrs @ 23°C.
Time to recoat:	24hrs @ 15°C, 6hrs @ 23°C.
Time to handle:	This will depend on the total thickness of FIRETEX® FX5120 to be applied.
Approvals:	Tested to BS476 Part 20/21. Certifire Approved – Certificate CF5012. This product has been assessed in accordance with the Criteria of Acceptability given in the ASFP/BCF “Industry Guidance document”. Tested and assessed in accordance with the ASFP fire testing protocol for cellular beam protection, see section 6.3 from ASFP “Yellow Book” 4th Edition. Tested and assessed to EN 13381-8. Tested and assessed to EN 13381-3. Tested to EN 13823 and EN 11925-2. European Technical Approval ETA 13/0113. CE Marking number 1121-CPD-GA5016.

Remedies concrete cover deficiency



FIRETEX® FX5120 can be applied as fire resistance when reinforced solid concrete slabs in buildings do not have the minimum thickness level to cover the rebars (and therefore PFP) in accordance with EN 1992-1 Part 2.

The diagram below shows the DFT needed to remedy the concrete cover deficiency.



Performance	Concrete Cover Over Rebars (mm)	FIRETEX® FX5120 DFT (mm)	FIRETEX® FX5120 Weight (kg/m ²)
REI 30	<10	0.810	1.126
REI 60	4	1.473	2.047
REI 60	5	1.232	1.712
REI 60	6	1.012	1.407
REI 60	7-20	0.810	1.126

Note: The term REI denotes that the concrete slab will have Load Bearing Capacity (R), Integrity (E) and Thermal Insulation (I) characteristics for the indicated number of minutes during a fire, as defined in EN 13501-2. In accordance with EN 1992-1 part 2, the required minimum slab thicknesses of reinforced concrete solid slabs are 60 mm (for EI 30) and 80 mm (for EI 60).

* Maximum sag tolerance typically 1800µm wet by airless spray.

The Sherwin-Williams Company

With over 150 years experience in the coatings industry we understand how critical it is that your investment gives you a quality, long term fire protection system, which performs in demanding environments.

The world class FIRETEX® range provides a smooth, hard finish that allows flexibility and creative exposure of structural steel surfaces in building design, whilst also providing essential protection of steelwork from 15-120 minutes.

Whether you specify FIRETEX® alone or in conjunction with our exceptional primers and top coats, you can be assured that you are selecting a passive fire protection system that has been researched, developed and tested to the highest international standards.

Speak to your Sherwin-Williams representative to get an estimate on your next project using our FIRETEX® intumescent materials.



INTUMESCENT PASSIVE
FIRE PROTECTION



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