



Fire retardant varnishes & fire-resistant paints

High-quality fire protection for building materials





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What is the difference between fire-retardant and fire-resistant?

Fire retardant materials slow down the spread of fire, while fire-resistant materials are designed to prevent the spread of fire and maintain the structural integrity of building materials or structures for a period of time. Both concepts are important in fire prevention and security, depending on the application and the degree of protection desired.

Advantages :

- Water-based and solvent-based paints
- Preserving the design of structures
- Coloured paint systems possible
- Comply with European standards
- According to Buildwise (BBRI) TV238 guidelines

Range :

Fire retardant varnishes for wood :

- **Fire-resistant paints**
 - Amotherm Wood WSB
 - Amotherm Wood 540 SB
 - Amotherm Wood 450 SB
 - Amotherm Wood 450 Exterior

- **Top coats**

- Amotherm Wood Top WSB
- Amotherm Wood Top 540 SB
- Amotherm Wood Top 450 SB
- Amotherm Wood Top 450 Exterior

Fire-resistant paint for concrete :

- **Primer**
 - Amotherm Primer WB
- **Fire-resistant paints**
 - Amotherm Brick WB
 - Amotherm Concrete WB
- **Topcoat**
 - Amotherm Brick Top WB

Fire-resistant paint for drywall :

- **Primer**
 - Amotherm Gyps Primer WB
- **Fire-resistant paint**
 - Amotherm Gyps WB
- **Topcoat**
 - Amotherm Gyps Top WB

Fire-resistant paint for steel :

- **Primers**
 - Apecoat Primer E-FIR
 - Aquaprimer D4280
- **Fire-resistant paints**
 - Firetex FX2002
 - Firetex FX2007
 - Firetex FX5090
 - C-Therm S101FD
 - C-Therm S111FD
- **Topcoats**
 - Aquacoating D6280
 - Firetex C75
 - Firetex M71

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The range includes the following products :

1. Fire-retardant varnish for wood

Fire resistance R30		Fire reaction				
Renovation works		Interior 			Exterior 	
Fire-retardant paint		Floors	Walls			
		Bfl, s1 (*)	B, s1-d0 (*)		B, s1-d0 (*)	
Topcoat		 		 	 	
		AMOTHERM WOOD WSB	AMOTHERM WOOD 540 SB	AMOTHERM WOOD WSB	AMOTHERM WOOD 450 SB	AMOTHERM WOOD 450 EXTERIOR
Topcoat		AMOTHERM WOOD TOP WSB	AMOTHERM WOOD TOP 540 SB	AMOTHERM WOOD TOP WSB	AMOTHERM WOOD TOP 450 SB	AMOTHERM WOOD TOP 450 EXTERIOR



(*) This is a classification standard for fire reaction: building materials are divided into classes (A1, A2, B, C, D, E or F) based on their contribution to fire. It also considers smoke development (s1, s2 and s3) and the formation of burning droplets and particles (classes d0, d1 and d2).

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2. Fire-resistant paint for concrete

Fire Resistance R30 to R120



Primer	AMOTHERM PRIMER WB Acrylate • mat • colourless
Fire-resistant paint	AMOTHERM BRICK WB Vinyl • intermediate layer of AMOTHERM CONCRETE WB Vinyl • intermediate layer
Topcoat	AMOTHERM BRICK TOP WB Acrylate • mat



3. Fire-resistant paint for drywall

Fire Resistance EI
(E) flamproofness (I) thermal insulation

Primer	AMOTHERM GYPS PRIMER WB
Fire-resistant paint	AMOTHERM GYPS WB
Topcoat	AMOTHERM GYPS TOP WB



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4. Fire-resistant paint for steel

Fire resistance R30 to R120

	C1, C2 environment 	C1, C2, C3, C4 environment 
Primer	AQUAPRIMER D4280 Acrylate • mat/satin  	C3 • C4 APECOAT PRIMER E-FIR Epoxy • High Build • mat  
Fire-resistant paint	FX5090  	FIRETEX FX2007   or FIRETEX FX2002   or C-THERM S101FD   or C-THERM S111FD  
Topcoat	AQUACOATING D6280 Acrylate • satin • all RAL-colours  	C3 • C4 (2x75µm) FIRETEX C75 PU • gloss • all RAL-colours   or C1 • C2 (1x75µm) FIRETEX M71 Acrylate • satin • all RAL-colours  

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Useful info :

Calculate layer thickness

The required thickness of the protective layer is determined based on several factors, including:



1. The type of material, such as wood, concrete, gyproc or steel.
2. The type of profile, in the case of steel beams.
3. The surface area (in the case of steel structures: the number of sides of the beams and their length).
4. The critical temperature at fire.
5. The desired fire resistance level: R30, R60, R90 or R120.

For each application, we can calculate the required layer thickness for you. Please contact us for more information.

Fire resistance

Fire resistance, referred to as R (Resistance), refers to the period during which building elements retain their functionality in the event of fire, or the time that elapses until the building element collapses:

R30 = 30 minutes
R60 = 60 minutes
R90 = 90 minutes
R120 = 120 minutes



Our fire resistance paints are available in 20L packaging. Please refer to the technical data sheets for information on the theoretical yield.

Type environment C1, C2, C3, C4 or C5I

Environment	Suitable for
C1: very low; for heated buildings with clean atmosphere. C 2: low; rural environments and unheated buildings.	Offices, schools, hotels, shops, warehouses, sports halls, garages, sheds and other (un)heated buildings.
C3: moderate; urban areas and buildings with moderate humidity.	Laundries, breweries, kitchens, food processors and other buildings with moderate humidity.
C4: high; industrial and coastal areas with moderate salinity.	Industrial buildings, chemical plants, swimming pools and coastal buildings such as ports and factories.
C5I: very high; continuous exposure to humidity and aggressive chemicals.	Other industrial applications.



All topcoats are available in all RAL colours.

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Application areas :

- Building materials
- Infrastructures: bridges, tunnels, railways
- Storage facilities: warehouses, workshops
- Industrial plants: machinery, piping
- Public buildings: schools, hospitals, theatres
- Shipping
- Historic buildings
- ...



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