



**KEEPS FIRE
UNDER
CONTROL**



Paint runs through our veins.

ADLER Pyrolan
FIRE PREVENTION COATINGS



A future-oriented family business since 1934



Austria's leading manufacturer of paints, varnishes and wood preservatives



Sole production site in Schwaz, Austria



Annual production 21,000 tonnes



Europe's most advanced water-based coatings factory



720 employees, including 120 in Research & Development



Environmentally friendly products, 65 % water-based paints



100 % climate-neutral production¹



More information:
www.adler-coatings.com/climate-neutral

ADLER does not merely pay lip service to quality, responsible action and social commitment. As is proven by numerous awards and certifications, for which the paint factory regularly undergoes strict inspections.

¹ ADLER has been able to reduce its carbon footprint to a minimum through a wide range of measures. ADLER offsets any unavoidable residual emissions through the purchase of recognised climate protection certificates, thereby helping to finance new climate protection projects.



**IF YOU PUT YOUR HEART AND SOUL INTO A TASK,
YOU WON'T WANT TO DO THINGS BY HALVES.**

The upward trend in timber construction means that fire prevention for timber structures is becoming an increasingly important issue. ADLER's innovative product line Pyrolan provides surface protection with an effective reduction in speed of burning and makes timber flame retardant. The water-based Pyrolan system is tailored to a range of different application methods such as boiler pressure impregnation and spray and brush application.



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EFFECTIVE FIRE PREVENTION WITH A NATURALLY BEAUTIFUL LOOK

As an environmentally friendly building material, timber has become an indispensable feature of contemporary architecture. Above all in public buildings such as schools, hospitals, sports centres and leisure centres, as well as in large residential projects, timber is currently very much on trend. It has to meet the highest standards, not only in terms of providing an attractive look but also with regard to its technical properties – in particular those relating to fire prevention. ADLER's Pyrolan fire prevention coatings are tested to ensure compliance with all the relevant standards, and make wood – as a material of the future – especially flame retardant. You can therefore be sure of meeting the demanding statutory requirements regarding fire prevention in your timber construction projects.



It has been shown that wooden structural elements that have been coated with ADLER Pyrolan are much slower to catch fire. In the case of a fire, this means more time for escape, and thus improved safety for both people and animals. The increased time for escape means that attempts to extinguish the fire can be more effective.

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AS AN OVERALL TERM, FIRE PREVENTION COVERS TWO AREAS:

Fire behaviour, meaning the flammability of the material/ structural element itself. Fire behaviour is important as it affects the spread of the fire during its initial phase.

Fire resistance, meaning the length of time for which a structural element retains its functionality in the case of a fire (e.g. REI 30).

Testing procedure in order to achieve classification:

Fire behaviour is tested using the SBI Tests (Single Burning Item) in accordance with European standard EN 13823. This enables classification in accordance with EN 135011 to be determined. The structural element to be classified – e.g. smooth-edged formwork made of spruce, elements of an acoustic wall, etc. – is tested, including the glue and final coat. The goal is to achieve the highest possible class for flammable construction materials such as timber, which is **Class B-s1, d0**.



ADLER Pyrolan coatings significantly improve the **fire behaviour** of timber elements. In doing so, they make people feel safer in their homes and enable the use of timber and timber-based products for a wide range of applications as a building material that complies with fire prevention regulations.

OVERVIEW OF PYROLAN PRODUCTS SHOWING COATS REQUIRED

		SYSTEM	
		Fire prevention impregnation	Foaming (intumescent)
COATS REQUIRED			
TRANSPARENT	Impregnation primer	Pyrolan Ionic Base KDI	Pyrolan Expand Base L
	Finishing coat	Pyrolan Ionic Top UV 100	Pyrolan Expand Top
OPAQUE	Impregnation primer	Pyrolan Ionic Base KDI	Pyrolan Expand Base D
	Intermediate coat	Pyrolan Ionic Sealer D ISO	
	Finishing coat	Pyrolan Ionic Top D STQ	Pyrolan Expand Top



PYROLAN IONIC FIRE PREVENTION THROUGH BOILER PRESSURE IMPREGNATION (KDI)

With the ADLER coating system Pyrolan Ionic, fire prevention properties are achieved through a flame protection impregnation treatment which the timber or timber-based material is given by means of boiler pressure impregnation (KDI). This enables them to achieve the highest possible fire prevention class for timber, Bs1, d0, in accordance with EN 135011. In the case of a fire, a chemical reaction is triggered. The ingredients that are thereby isolated have a cooling function, and, at the same time, the amount of oxygen is reduced. Behind Pyrolan Ionic, there is a new and innovative technology that brings together effective fire prevention and an attractive appearance for the coated timber, and it's also easy and efficient to use. There are no conventional fire prevention salts in Pyrolan Ionic, meaning that the optical problems that can arise through salt efflorescence are avoided, as is as the usual sharp increase in tool wear (e.g. planer knives). The coating system is suitable for use on structural elements in interior areas or protected structural elements in outdoor areas (e.g. roof soffits).



© BINDERHOLZ



© SCHALLERT WÜST ARCHITEKTEN / GUSTAV WILLEIT

PYROLAN IONIC BASE KDI

The water-based flame protection impregnation treatment Pyrolan Ionic Base KDI brings about an improvement in fire behaviour and makes timber and timber-based materials especially flame retardant. It was specially developed for the boiler pressure method. The natural surface and original colour of the wood are hardly changed by the impregnation treatment. Furthermore, there is no unattractive white salt efflorescence in situations where the humidity is high (up to a maximum of 80 % relative humidity). There is also significantly less wear of cutting tools (e.g. planer knives) during further steps in the finishing of the impregnated wooden structural elements, as the product does not contain any of the conventional abrasive fire prevention salts.

- + water-based flame protection impregnation
- + retains the natural surface and original colour of the wood
- + for treated wood surfaces
- + in interior areas and protected outdoor areas (e.g. roof soffits)
- + no salt efflorescence
- + low level of wear on cutting and planing tools
- + EN 13501-1 (fire behaviour) B-s1, d0
- + free from biocidal agents
- + biodegradable

Product no. 5390000200
Container 1.000 l Container



PYROLAN IONIC TOP UV 100

In contemporary architecture, living spaces are usually filled with a generous amount of pleasant, natural light. This makes it all the important to ensure high-quality protection against yellowing of timber elements on walls and ceilings. The water-based, thin-film glaze finish Pyrolan Ionic Top UV 100 provides the best possible UV protection and significantly delays yellowing of the wood. It preserves the natural appearance of the wood and ensures a long-lasting, fresh look. At the same time, the wood is protected against damp and dirt, and also against damage, for example during transportation. Using it as a topcoat for our flame retardant impregnation treatment Pyrolan Ionic Base KDI allows you to achieve the optimal level of fire prevention properties. Timber structures in interior areas and in protected outdoor areas (e.g. roof soffits) can therefore be given the best possible protection and a perfect finish.

- + water-based, thin-film glaze finish
- + for application onto Pyrolan Ionic Base KDI
- + for treated wood surfaces in interior areas and protected outdoor areas (e.g. roof soffits)
- + biocide-free product
- + contains special UV and lignin stabilisers
- + long-lasting natural appearance
- + can be tinted with the ADLER | MIX colour mixing system

Product no. 5391000220
Container 25 l





© VOLKER WORTMEYER



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PYROLAN IONIC SEALER D ISO

Pyrolan Ionic Sealer D ISO is the perfect primer and insulator for opaque colours. Special active fillers prevent unattractive discolouration of knots, even when there is increased exposure to moisture, thereby guaranteeing both safety and a perfect look, in particular with whites and pastel shades. This primer offers additional protection for a long lifespan and the best possible degree of durability for coated timber elements in interior areas and in protected outdoor areas (e.g. roof soffits).

- + primer with very good insulating effect
- + increased resistance where the moisture level is high
- + prevents unattractive discolouration of knots

Product no. 5395050000
Container 20 l



PYROLAN IONIC TOP D STQ

Pyrolan Ionic Top D STQ offers a high degree of coverage and guarantees a perfect surface for many years to come for wood surfaces coated with opaque colours in interior areas and in protected outdoor areas (e.g. roof soffits). To prevent yellowing of knots with whites and pastel shades, the best solution for this fire prevention coating system is priming with Pyrolan Ionic Sealer D ISO. With the opaque coating system Pyrolan Ionic Top D STQ, you can achieve beautiful results on your timber construction elements, with either spray or brush application. Giving you the freedom to realise an endless variety of designs, Pyrolan Ionic Top D STQ is available in all RAL and NCS shades, from powerful bright colours through to subtle pastel shades.

- + very good coverage
- + excellent colour fastness
- + available in all RAL and NCS colours
- + easy-to-use product
- + high degree of block resistance
- + extremely resilient and durable

Base W10 5396000010
Base W30 5396000030
Container 25 l







PYROLAN EXPAND – FOAMING FIRE PREVENTION COATINGS

Pyrolan Expand is a foaming (intumescent) coating system which is water-based. At high temperatures, the coating forms a foam containing carbon which acts as an insulating layer and creates a barrier against the source of the fire. As a result, the speed of spread of the fire is reduced considerably. Coating wooden structural elements with ADLER Pyrolan Expand therefore allows them to achieve fire prevention class B-s1, d0. The coating is also free from formaldehyde, biocides, heavy metals and halogens, meaning that, in the case of a fire, no toxic substances such as formaldehyde are released. The range includes both a transparent (Pyrolan Expand Base L) and an opaque fire prevention primer (Pyrolan Expand Base D). In both cases, we recommend the use of Pyrolan Expand Top as a final and protective topcoat. This coating system is suitable for spray, roller or brush application, although we generally recommend spray application due to the larger quantities required.



© SASCHA HAUKE



© GRANACHER

PYROLAN EXPAND BASE L | D

This biocide-free primer reacts to the effects of heat and, in the case of a fire, forms a foaming, insulating barrier against the source of the fire. The speed of spread of the fire is thereby drastically reduced. This water-based fire prevention primer is suitable for use on wooden surfaces in interior areas and in protected outdoor areas (e.g. roof soffits). Pyrolan Expand Base L (transparent coating systems) and Pyrolan Expand D (opaque coating systems) can be tinted ex-works to produce a wide range of colours and will give your wooden structural elements an individual look and the best possible protection against fire.

- + water-based primer
- + innovative fire prevention through foaming function (intumescent)
- + EN 13501-1 (fire behaviour) B-s1, d0
- + biocide-free product
- + available in many different colours

Product no. Pyrolan Expand Base L
Colourless, tintable 5392000220
Pyrolan Expand Base D
Base W30
5393000030
Container 20 l



PYROLAN EXPAND TOP

Pyrolan Expand Top is water-based and free from biocidal agents. As a topcoat used with Pyrolan Expand Base L/D, it not only gives the surfaces of wooden structural elements a beautiful finish but also makes a considerable contribution to good fire prevention behaviour. Pyrolan Expand Top also seals the surface, giving it a very high level of water resistance. This colourless final coat offers long-lasting protection in interior areas and in protected outdoor areas (e.g. roof soffits).

- + water-based colourless final coat for use with Pyrolan Expand Base L/D
- + biocide-free product
- + improves water resistance
- + naturally transparent surface protection

Product no. 5394000200
Container 25 l





Paint runs through our veins.

Over 85 years ago, Johann Berghofer laid the foundation stone for ADLER and work was started to develop its own paints.

Much has changed since that time, but one thing has stayed the same: our passion for colour, which drives us day after day to work on the perfect surface coating.

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ADLER-COATINGS.COM

ADLER-Werk Lackfabrik · Bergwerkstraße 22 · A-6130 Schwaz/Tirol · T. +43 5242 6922-0 · info@adler-lacke.com

ADLER Deutschland GmbH · Kunstmühlstr. 14 · D-83026 Rosenheim · T. +49 8031 304 5174
ADLER Lack AG · Etzelstraße 5 · CH-8856 Tuggen · T. +41 55 465 2121
ADLER Italia S.r.l. · Via per Marco 12/D · I-38068 Rovereto · T. +39 0464 425 308
ADLER Polska Sp. z o.o. · ul. Tyniecka 229 · PL-30-376 Kraków · T. +48 12 252 4001

ADLER Česko s.r.o. · Jihlavská 770/27 · CZ-664 41 Troubsko · T. +420 731 725 957
ADLER Slovensko s.r.o. · Montážna 3 · SK-971 01 Prievidza · T. +421 46 5199 621
ADLER Benelux BV · De Boelakkers 12 · NL-5591 RA Heeze · T. +31 85 064 2020