

# FIRE RETARDANT COATING SOLUTIONS

TEKNOSAFE  
Exterior and Interior wood





# NEW HORIZONS IN WOOD WITH TEKNOS FIRE RETARDANT PAINT SYSTEMS

## TEKNOSAFE FIRE RETARDANT SOLUTIONS FOR WOOD

TEKNOSAFE industrial coatings is a range of fire retardant (FR) paint systems for exterior and interior wood, classified for Reaction to Fire.

Enjoy the architectural freedom to design with wood in built-up areas and on tall buildings. TEKNOSAFE FR coating solutions allow wood to be used on projects where fire safety concerns had previously made such designs impossible.

### 5 REASONS WHY TEKNOSAFE IS DIFFERENT

#### 1. Surface coated not impregnated

TEKNOSAFE products are surface coatings not fire impregnations and are very effective at slowing the spread of fire

#### 2. No leaching

TEKNOSAFE 2407 does not leach or release chemicals to the surface of the coated timber when it rains or in high humidity

#### 3. FR classification retained

No leaching of the active agent means that the FR efficacy is retained, instead of being washed away if it has leached to the surface

#### 4. All colours

Our FR coating systems are classified for all opaque colours inside and out and all translucent colours and colourless coatings inside. Set off your designs to their best advantage with your choice of shades

#### 5. Easy maintenance

Keeping the FR coatings in top condition and at full fire retardant effectiveness is easy. We provide comprehensive guides for property owners with step-by-step instructions for maintenance.

### How does TEKNOSAFE work during a fire?

In the event of a fire, the paint swells to form a durable, protective foam layer, creating an insulating effect which prevents flammable gasses from being released from the wood.

If the fire lasts, the upper part of the wood substrate turns to charcoal, but without igniting. As a result, wood treated with TEKNOSAFE is also able to protect underlying materials from fire and is approved for K<sub>1</sub>10 and K<sub>2</sub>10.



Photo showing the protective charcoal layer



### CONTACT US

For further information on systems for TEKNOSAFE FR coating solutions, contact your local Teknos FR coating expert

# RECOMMENDED SYSTEMS

## EXTERIOR OR INTERIOR FR INDUSTRIAL PAINT SYSTEM

### Opaque EXTERIOR Coating System - All Colours

Layer	Product	Applied
1	TEKNOSAFE 2407 fire retardant paint	Factory
2	TEKNOSAFE FLAME PROTECT 2408-00*	Factory

## INTERIOR AND NON-WEATHERED FR INDUSTRIAL PAINT SYSTEMS

### Opaque INTERIOR Coating System All Colours

Layer	Product	Applied
1	TEKNOSAFE FLAME GUARD 2457-10 fire retardant paint	Factory
2	TEKNOSAFE FLAME PROTECT 2458-00*	Factory

### Translucent/Colourless INTERIOR Coating System All Colours

Layer	Product	Applied
1	TEKNOSAFE FLAME GUARD 2467-10 fire retardant paint	Factory
2	TEKNOSAFE FLAME PROTECT 2468-00*	Factory

### Translucent/Colourless INTERIOR Coating System All Colours

Layer	Product	Applied
1	TEKNOSAFE FLAME GUARD 2477-00 fire retardant paint	Factory
2	TEKNOSAFE FLAME PROTECT 2478-00	Factory

\*Other topcoats are possible, please refer to the relevant classification report.

Ask your local Teknos FR coating expert for details of the full coating system. The Technical Datasheets must be followed to achieve the quality, Reaction to Fire and appearance of the surface treated with TEKNOSAFE.

#### MORE INFORMATION

Visit [teknos.com](https://www.teknos.com) for guides and classifications



## FIRE CLASSIFICATIONS

The standard to which the fire retardant coated products are assessed is set out in EN13501-1 and the results of each test are published in a fire classification report. TEKNOSAFE FR coating solutions all hold these classifications.

Reaction to Fire Classification for Teknos FR Exterior

- B-s1,d0 for surfaces in accordance with EN13501-1
- K<sub>1</sub> 10 and K<sub>2</sub> 10 for cladding in accordance with EN13501-2
- Performance requirement according to SP Fire 105

Reaction to Fire Classification for Teknos FR Interior

- B-s1,d0 for surfaces in accordance with EN 13501-1

Suitable Timbers for FR Interior Coating Systems

These classification reports cover any wood based substrate of Class D-s2,d0 with a density equal to or greater than 338 kg/m<sup>3</sup> and a thickness of at least 8.0mm.

## DURABILITY CLASSIFICATIONS

The standard to which the fire retardant treated wood products are assessed for durability of reaction to fire performance is set out under EN 16755 and EN 1995. TEKNOSAFE FR coating solutions all hold these classifications.

EN 16755 - DRF INT1, INT2, and EXT

EN 1995 - Service Class 1, 2, 3

## CERTIFICATION FOR MANUFACTURERS

For timber products, structural timbers and board materials, the EU has introduced Product Standards, in accordance with which all timber manufacturers have to document their own products before they can be sold within the European market.

Teknos can provide support in this process ask your Teknos FR coating expert for details or visit [teknos.com](https://www.teknos.com) to download our 'Fire Regulation Certification Process' one-page summary.

# WE MAKE THE WORLD LAST LONGER

Teknos is a global coatings company with operations in more than 20 countries in Europe, Asia, and the USA. Teknos is one of the leading suppliers of industrial coatings with a strong position in retail and architectural coatings.

Teknos wants to make the world last longer by providing smart, technically advanced paint and coating solutions to protect and prolong. Teknos always works in close cooperation with its customers. Teknos was established in 1948 and is one of Finland's largest family-owned businesses.

For further information, visit [www.teknos.com](http://www.teknos.com).