

# Intumescent Coatings Market is Expected to Register Highest CAGR of 5.45% By 2032 - SNS Insider

*Growing Demand for Fire Protection and Stringent Safety Regulations to Drive Intumescent Coatings Market Growth*

AUSTIN, TX, UNITED STATES, January 31, 2025 /EINPresswire.com/ -- The [Intumescent Coatings Market](#) size was valued at USD 1.19 Billion in 2023 and is projected to reach USD 1.92 Billion by 2032, growing at a CAGR of 5.45 % over the forecast period 2024-2032.

The market growth is primarily driven by the increasing demand for fire safety solutions in the construction industry, and the implementation of stricter fire safety regulations.

## Key Market Drivers

A major driver of the intumescent coatings market is the growing emphasis on building safety and the enforcement of stringent fire protection regulations. Intumescent coatings are widely used in fire protection systems due to their ability to expand when exposed to high temperatures, forming a protective layer that insulates and shields the substrate from fire. This makes them an essential component in safeguarding both the structural integrity and the occupants of buildings during a fire.

The rising adoption of passive fire protection systems in commercial and residential buildings is a significant contributor to the market's expansion. Unlike active fire protection systems, which require mechanical action, passive fire protection systems are designed to contain or slow the spread of fire, thereby allowing occupants more time to evacuate safely. The increasing demand for these systems in response to more rigorous fire safety codes and standards is driving the use of intumescent coatings.

Additionally, the growing focus on green and sustainable construction practices is contributing to



market growth. Intumescent coatings are increasingly being developed with eco-friendly formulations that are free of harmful solvents, enhancing their appeal in the growing sustainable construction sector. Furthermore, the increasing awareness about fire safety risks and the rising number of fire-related accidents are encouraging both private and public sectors to invest in fire-resistant materials, including intumescent coatings.

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Leading Key Players:

- Jotun
- Akzo Nobel N.V.
- Carboline
- Contego International Inc.
- Albi Protective Coatings
- No-Burn Inc.
- Hempel A/S
- The Sherwin-Williams Company
- Nullifire
- Isolatek International
- 3M
- Tor Coatings
- Rudolf Hensel GmbH
- Sika AG
- PPG Industries, Inc.

Market Segmentation and Sub-Segmentation Included are:

By Technology

- Solvent-based
- Epoxy-based
- Water-based

In 2023, the Epoxy-based Intumescent Coatings segment held the largest market share of 38%. Coatings based on epoxy are the most favored for their best binding properties, good chemical resistance, and durability in extreme ambient conditions. These coatings are highly suitable for all applications where durable and long-lasting protection is vital in the construction, marine, and industrial sectors. Epoxy-based intumescent coatings are ideal for fire protection due to their ability to form a thick char that insulates from extreme heat and protects the underlying structural member (steel or concrete). These properties, along with a longer life than alternative methods of coating, have made them the most utilised technology by industry and commerce,

notably in sectors where added fire protection is required.

### By Type

- Thick-film Intumescent Coatings
- Thin-film Intumescent Coatings

In 2023, Thick-film intumescent coatings accounted for the largest share of the market due to its excellent fire protection properties and ability to be applied in different applications. Thick-film coatings are used because their expansion in fire provides higher fire resistance than thin-film coatings which do not expand as much. Thus, they offer extremely effective protection to structural elements, particularly in environments with high risk such as that of industrial facilities, commercial buildings, and offshore structures. This thicker coating not only provides added insulation for the substrate, allowing it to endure higher temperatures for a longer period of time, but also offers better fire protection. In addition, thick-film coatings are also invariably preferred for applications requiring longer-lasting, high-performance fire protection, further propelling the market growth of the same. These materials have been singled out by industries which require assurance that they will not ignite, as they successfully comply with severe fire safety regulations and offer protection.

### By End-use Industry

- Oil & Gas
- Building & Construction
- Automotive
- Others

In 2023, the building & construction sector held the largest share of the end-user market. The growing number of commercial establishments such as offices, retail outlets, and hotels, especially in urban areas, is driving the demand for fireproofing solutions like intumescent coatings. These coatings are critical in ensuring that commercial buildings meet fire safety regulations while maintaining the aesthetic appeal of their structural elements.

Residential construction, while growing, is expected to experience a slower growth rate due to lower regulatory requirements and a reduced focus on fire safety compared to commercial and industrial buildings.

### By Substrate

- Wood
- Structural Steel & Cast Iron
- Others

### By Application Technique

- Spray
- Brush/Roller

#### By Application

- Cellulosic
- Hydrocarbon

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#### Regional Analysis

Asia Pacific leads the Intumescent Coating Market with a share of approximately 35.5% and is predicted to be the dominating region throughout the projected period 2024-2032. This is due to high number of end users, proximity to raw material suppliers, industrialization and urbanization, especially in India and China. Such factors are expected to boost the demand for intumescent coatings in this region. The Asia Pacific region has a major edge over North America and Europe in terms of availability of raw materials and relatively lesser strictness of laws with regard to VOC emissions. This has opened up the doors for the development of diverse sectors such as construction, automotive, marine, etc. The most emerging nations of Asia Pacific are also benefitting with the low cost of labor, thus drawing foreign investors to set up their manufacturing plant in the region. As a result, rising number of manufacturing plants is projected to propel the construction activities, which in turn is likely to drive the demand for intumescent coatings over the forecast period.

#### Recent Developments

- April 2024: AkzoNobel launched a new range of eco-friendly intumescent coatings that are free of hazardous solvents and comply with the latest fire safety standards.
- March 2024: Sherwin-Williams expanded its product line to include advanced intumescent coatings specifically designed for the high-performance needs of industrial and marine applications.
- February 2024: Jotun announced the opening of a new manufacturing facility in Singapore to produce intumescent coatings for the growing construction and infrastructure markets in the Asia-Pacific region.

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