

Global Fire Stopping Material Market Assessment, By Type [Coating, Mortar, Sealant, Filler, Sheet/Board, Spray, Preformed Device, Putty, Cast-In Devices, Others], By Application [Electrical, Mechanical, Plumbing], By End-user [Residential, Non-Residential], By Region, Opportunities and Forecast, 2018-2032F

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Report description:

Global fire stopping material market is projected to witness a CAGR of 10.10% during the forecast period 2025-2032, growing from USD 2.01 billion in 2024 to USD 4.34 billion in 2032. The global fire protection material market is likely to witness substantial growth due to growing awareness of fire safety regulations and strict building codes, forcing various industries to invest in advanced fire protection solutions. Technological advancements, especially in intumescent coatings and fire-resistant boards, are changing the dynamics of the market, while the rapidly growing commercial construction sector-covering office buildings, shopping malls, and hotels remains the dominant segment in the market. Rapid urbanization and industrialization trends in developing economies further support the growth, while construction activities are progressing in these regions. Regions such as the Asia-Pacific are leading in market share due to extensive infrastructure investments and urban development initiatives. Conversely, North America is expected to exhibit robust growth, driven by stringent regulations and a proactive approach to fire safety. Key players in this sector include prominent companies that focus on product innovation and geographical expansion to enhance their competitive positioning. The ongoing emphasis on safety standards and the integration of advanced materials will continue to drive demand for fire protection solutions across various industries. Major companies operating in fire protection materials for the construction market are developing innovative products to meet the growing demand for fire protection materials.

For instance, in September 2022, Nullfire, an RPM International Inc. brand that provides fire-stopping solutions, introduced a novel sealant product designed for Chlorinated polyvinyl chloride (CPVC) materials. The product provides fire resistance of up to 120 minutes. It is distinguishable by its distinctive blue hue, which facilitates straightforward identification and tracking while on the job site.

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New Product Launches Bolster the Demand

The demand for fire stopping materials is on the rise, driven by innovative product development. The global market is expected to grow exponentially in the coming years, reflecting a strong compound annual growth rate. Key innovations include high-performance gypsum boards, eco-friendly fire-resistant coatings, and advanced sealants that enhance both safety and design flexibility in construction. The increasing awareness of fire safety in residential and commercial buildings, coupled with stringent regulatory frameworks, has made these materials essential for compliance with safety standards. Sectors, like the electrical and telecommunications industries, have shown significant growth due to being prone to catching fire easily. For instance, in June 2024, PPG Industries, Inc. announced the launch of PPG STEELGUARD 951 epoxy intumescent fire protection coating in the Americas. This innovative product is designed for advanced manufacturing facilities, including semiconductor plants, electric vehicle battery facilities, data centers and other commercial infrastructure. PPG Steelguard 951 coating provides up to four hours of fire protection by expanding from a thin, lightweight film into a thick, insulating foam.

Rising Fire Incidents Fuel Demand for Fire Protection Materials

The growing number of fire accidents is expected to boost the demand for fire protection materials for the construction market in the forecasted period. In November 2024, according to a survey by the National Fire Protection Association, a US-based nonprofit organization, local fire departments in the US attended 1,353,500 fires, killing 3,675 civilians and injuring 13,350 others while causing property damage amounting to USD 23 billion. Hence, the rapidly increasing rate of fire incidents promotes the growth of fire protection materials for the construction market. As fire incidents become more frequent, there is an increasing urgency for robust safety measures, prompting industries to invest in advanced fire protection solutions. This growing awareness is driving the adoption of innovative materials such as intumescent coatings, fire-resistant boards, and sealants designed to enhance structural integrity and safety.

For instance, in February 2023, Huntsman International LLC launched three new products at the European Coatings Show (ECS), the products are POLYRESYST IC6005 polyurethane system which is a novel intumescent coating developed for the construction industry that can provide passive fire performance alongside strong protective properties.

Non-Residential Sector Dominates the Market Growth

Non-residential sector is the largest market for fire-stopping materials, commonly covering commercial and institutional construction. Institutional construction covers all types of facilities including healthcare facilities (hospitals and laboratories), financial institutions, hospitality facilities, educational institutions, and government offices. Commercial real estate has exhibited robust growth in both developed and emerging markets. There has been tremendous growth in the opening of grocery shops, pharmacies, and fast food chains in developed countries. On the other hand, in developing regions, this growth is mainly driven by the construction of hospitals, educational buildings, and retail stores. Key manufacturers in the fire materials for construction market are constantly focusing on cutting-edge research and technological advancements to and introduce improved fire protection materials that can withstand fire for a longer period and emit less smoke when burned.

For instance, in June 2022, Hempel A/S, a manufacturer of coating solutions based out of Denmark, announced the launch of a new protection material that will be known as Hempafire XTR 100 for the hydrocarbon passive fire protection segment. The lightweight coating is engineered for the passive fire protection of downstream assets in the oil and gas industry, offering a low dry film thickness.

North America Leads the Global Market Growth

North America is the leading market for fire-stopping materials, primarily due to strict building codes and regulations regarding fire safety that incorporate the use of efficient fire protection solutions. In North America, the United States have a strong regulatory environment directed toward protecting lives and property in commercial and residential sectors. The boom in urbanization and construction activities, especially high-rise buildings, commercial spaces, etc. fuels the demand for advanced fire-stopping technologies, mainly based on intumescent coatings and fire-resistant sealants. The prominent players involved in this sector are concentrating their research and development on environmentally friendly materials that meet the changed standards by acquiring, merging, and collaborating with other companies to develop new product lines and expand their presence in North America.

For instance, in August 2023, The Hiller Companies, LLC acquired Fire Defense Services, Inc. for an undisclosed amount, a US-based fire protection products and services provider. The acquisition is expected to expand Hiller's presence in Virginia,

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focusing on the greater Richmond metropolitan area while bringing valuable experience and enhanced capabilities to the company. Fire Defense Services, Inc. is a US-based fire and life safety services provider.

Future Market Scenario (2025 - 2032F)

- The fire-stopping materials market is projected to grow significantly as sustainability becomes a central focus in the building industry, with regulations promoting eco-friendly materials driving demand
- The fire protection materials market is anticipated to grow significantly due to increasing awareness of fire safety and the need for compliance with stringent regulations.
- Ongoing advancements in fire-resistant materials, including eco-friendly options and enhanced performance products, will drive market expansion and meet evolving safety standards.
- Rapid urbanization and infrastructure projects, particularly in emerging economies, will boost demand for effective fire protection solutions in new construction.
- Stricter building codes and fire safety regulations will compel industries to adopt advanced fire-stopping materials, ensuring enhanced safety in commercial and residential applications.

Key Players Landscape and Outlook

The competitive landscape of the fire stopping materials market features a blend of established leaders and emerging players. Major companies are dominating the sector, leveraging extensive product portfolios and advanced technologies to comply with stringent fire safety regulations. These industry giants focus on innovation, developing high-performance and eco-friendly materials that enhance fire protection. In addition to these key players, smaller firms are gaining traction by introducing novel solutions like mineral wool insulation and forming strategic partnerships. The market is driven by increasing construction activities, heightened awareness of fire safety, and evolving regulatory frameworks. While North America remains a significant market due to strict building codes, the Asia-Pacific region is poised for rapid growth due to urbanization and industrialization trends.

For instance, in December 2022, Knauf Group's Rocksilk?Flexible Slab was the first mineral wool insulation solution in the UK tested to provide one hour of fire resistance to EN 1365 at both 400mm and 600mm center widths within the separating floor of a loft conversion.

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