

India Liquid Applied Membranes Market By Type (Bituminous, Elastomeric, Cementitious, Others), By End User (Residential, Commercial, Public Infrastructure), By Region, Competition, Forecast and Opportunities, 2020-2030F

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Abstracts

India Liquid Applied Membranes Market has reached reach USD 118.17 million by 2024 and is anticipated to project significant growth to reach USD 142.25 million in 2030 with a CAGR 3.78% through 2030.

Liquid Applied Membranes (LAM) have emerged as a crucial component in the construction industry, offering effective waterproofing solutions for a wide range of applications. In India, the market for liquid applied membranes has witnessed substantial growth in recent years, driven by increasing infrastructure development, urbanization, and the need for sustainable building practices.

The primary function of liquid applied membranes is to provide a seamless, durable, and flexible waterproofing barrier to protect structures from moisture ingress and other environmental factors. This makes them suitable for various applications, including roofs, basements, balconies, tunnels, and reservoirs. The versatility of liquid applied membranes allows for easy application on both horizontal and vertical surfaces, regardless of complexity or substrate material.

One of the key drivers of the India liquid applied membranes market is the booming construction industry. Rapid urbanization, population growth, and government initiatives such as Smart Cities Mission and Housing for All have led to a surge in construction activities across the country. As a result, there is a growing demand for reliable waterproofing solutions to ensure the longevity and structural integrity of buildings and

infrastructure projects.

Increasing awareness about the importance of sustainable construction practices has fueled the adoption of liquid applied membranes. These membranes offer several environmental benefits, such as reduced material wastage, lower energy consumption during application, and the ability to extend the lifespan of structures by preventing water damage. As sustainability becomes a key consideration in construction projects, the demand for eco-friendly waterproofing solutions like liquid applied membranes is expected to rise further.

Technological advancements and product innovations have contributed to the growth of the liquid applied membranes market in India. Manufacturers are continuously investing in research and development to introduce products with enhanced performance properties, such as improved flexibility, adhesion, and resistance to UV radiation and chemical exposure. These innovations have expanded the scope of applications for liquid applied membranes and increased their attractiveness to architects, engineers, and contractors.

However, the India liquid applied membranes market also faces certain challenges. The high initial cost of installation and the need for skilled labor for application are significant barriers to adoption, particularly in the residential construction segment. Also, issues related to product compatibility, substrate preparation, and quality assurance during installation can impact the effectiveness of liquid applied membranes and lead to performance failures. The India liquid applied membranes market is poised for continued growth driven by urbanization, infrastructure development, and the emphasis on sustainable construction practices. With ongoing advancements in technology and product innovation, liquid applied membranes are expected to play a crucial role in ensuring the durability, safety, and resilience of buildings and infrastructure projects across the country. However, addressing challenges related to cost, skill availability, and installation quality will be essential to unlock the full potential of liquid applied membranes in the Indian construction industry.

Key Market Drivers

Growth in Infrastructural Development

India's rapid infrastructural development has become a hallmark of its economic growth trajectory, with significant momentum expected to continue in the foreseeable future. This surge in construction activity has catalyzed the expansion of ancillary industries,

among which the Liquid Applied Membranes (LAMs) market stands out prominently. LAMs, renowned for their seamless waterproofing capabilities delivered through liquid application and curing, have emerged as indispensable components in the construction sector. India has made significant strides in the development of its national highway network over the past decade, driven by a substantial increase in budget allocation and construction pace. Since 2014, road transport and highway funding has surged by 500%, resulting in a marked acceleration of infrastructure growth. In 2020-21, the country achieved a record highway construction pace of 37 km per day, the fastest in its history. The National Highway (NH) network has expanded by 60%, growing from 91,287 km in 2014 to 1,46,145 km in 2023. Additionally, the length of 4-lane highways has increased 2.5-fold, from 18,387 km in 2014 to 46,179 km as of November 2023. The overall pace of NH construction has also risen by 143%, from an average of 12.1 km per day in 2014 to 28.3 km per day, highlighting the significant acceleration in infrastructure development.

The burgeoning demand for LAMs in India is intricately linked to the surge in infrastructure projects across the nation. From residential complexes to commercial skyscrapers, and from road networks to water management systems, the spectrum of construction endeavors embracing LAMs is broad and diverse. This trend underscores the industry's recognition of LAMs as cost-effective, versatile, and superior waterproofing solutions.

A pivotal driver of the LAM market's growth is the unwavering commitment to quality in construction practices. With a concerted effort to erect structures of enduring durability, developers and builders are increasingly turning to LAMs to safeguard against moisture intrusion and ensure structural integrity. LAMs, with their proven track record and adaptability, seamlessly align with this ethos of quality construction, positioning themselves as the preferred choice for a wide array of projects.

In essence, India's infrastructural metamorphosis serves as the bedrock for the burgeoning LAM market. As the nation continues its robust investment in physical infrastructure, coupled with an unwavering focus on quality and longevity in construction, the demand for reliable and high-performance waterproofing solutions like LAMs is poised to witness exponential growth. This symbiotic relationship between infrastructure development and the LAM market underscores a promising trajectory for the latter, signaling a future defined by resilience, sustainability, and innovation in India's construction landscape. India has made remarkable strides in rural road infrastructure, with the construction of 3.74 lakh kilometers of roads under the Pradhan Mantri Gram Sadak Yojana (PMGSY) since 2014. This development has resulted in

over 99% of rural habitations being connected, underscoring the government's commitment to improving accessibility and connectivity in rural regions. As of the latest data, the total length of rural roads completed stands at 7.55 lakh kilometers, a significant increase from 3.81 lakh kilometers in 2013-14.

Surge in Urbanization

As India undergoes rapid urbanization and experiences a surge in population growth, the construction industry faces increasing demands for durable and efficient materials and technologies. Liquid Applied Membranes (LAMs) have emerged as innovative solutions to address these needs, gaining widespread popularity in the construction sector.

Urbanization in India is proceeding at a rapid pace, fueled by significant migration from rural areas to urban centers in search of better opportunities. India is experiencing rapid urbanization, with projections indicating that by 2036, 600 million people, or 40% of the population, will reside in urban areas, up from 31% in 2011. Urban centers are expected to contribute nearly 70% of the nation's GDP. Effectively managing this urban transition will be pivotal to India's goal of achieving developed country status by 2047, marking the 100th anniversary of its independence. This urban shift presents both challenges and opportunities, and how India navigates this transformation will be crucial in realizing its economic and social aspirations. This demographic shift has resulted in a sharp rise in construction projects, particularly in the residential and commercial sectors, necessitating effective waterproofing solutions capable of withstanding the challenges posed by urban environments. LAMs have become preferred choices for waterproofing due to their cost-effectiveness, ease of application, and superior performance characteristics. These membranes create a seamless protective layer that offers reliable waterproofing for various construction applications, including residential and commercial buildings.

The surge in urbanization and population growth has directly impacted the demand for LAMs, as constructors and developers prioritize reliable and high-performance waterproofing solutions to ensure the longevity and sustainability of their structures. Thus, India's rapid urbanization is driving significant growth in the liquid applied membranes market. As urbanization trends continue, the demand for efficient and reliable waterproofing solutions like LAMs is expected to increase further, promising a prosperous future for the LAM market in India.

Key Market Challenges

Complexities Associated with Long-term Performance and Durability

Liquid applied membranes (LAMs) are renowned for their exceptional waterproofing capabilities and their ability to shield surfaces from environmental elements. However, ensuring their long-term performance and durability entails grappling with various complexities.

A critical determinant of LAM effectiveness lies in their correct application. This process demands skilled labor and meticulous surface preparation to guarantee optimal adhesion and coverage. Even minor oversights during application can jeopardize the membrane's integrity, leading to premature failure and undermining its durability over time.

Environmental factors such as prolonged UV exposure, extreme temperatures, and chemical contact can gradually degrade the membrane's properties, compromising its overall durability. Manufacturers encounter challenges in assuring the longevity of LAMs due to the absence of standardized testing methods tailored specifically to assess their long-term performance.

Navigating these complexities necessitates a comprehensive understanding of LAM characteristics and application techniques. By doing so, professionals can make well-informed decisions and select the most appropriate membrane solutions tailored to their unique needs and environmental conditions. This proactive approach ensures the effective utilization of LAMs while mitigating the risks associated with their long-term performance and durability.

Key Market Trends

Rising Awareness about Waterproofing Solutions

Liquid applied membranes (LAMs) represent a significant advancement in waterproofing technology, revolutionizing the construction industry with their exceptional performance and versatility. These innovative solutions are applied in liquid form and then cured to create a seamless and impenetrable protective layer, offering superior waterproofing capabilities, cost-effectiveness, and ease of application. The increased awareness among constructors, developers, and homeowners regarding the importance of effective waterproofing solutions has driven the demand for LAMs in recent years. This heightened awareness stems from the growing prevalence of water-induced damage,

such as leaks, dampness, and structural deterioration, which can significantly impact the longevity of buildings.

Consequently, the demand for dependable and high-performance waterproofing solutions like LAMs has witnessed a steady rise, propelling the growth of the liquid applied membranes market in India. Moreover, this surge in awareness has not only increased demand but also spurred innovation in the LAM industry. Manufacturers are actively investing in research and development to enhance the performance and versatility of liquid applied membranes.

To address specific needs and requirements, manufacturers are introducing advanced LAMs with enhanced resistance to UV radiation and extreme temperatures. In addition, specialized membranes designed for use in green buildings are being developed, further fueling market growth by catering to the evolving demands of the construction industry.

The advent of liquid applied membranes has transformed the waterproofing landscape, offering superior performance, cost-effectiveness, and ease of application. With increasing awareness about the importance of effective waterproofing solutions, the demand for LAMs is expected to continue its upward trajectory. As manufacturers continue to invest in research and development, the future of liquid applied membranes looks promising, with endless possibilities for advancements in performance and versatility.

Segmental Insights

Type Insights

Based on the category of type, the elastomeric segment has emerged as a dominant force in the Indian market for liquid applied membranes (LAMs) in 2024, showcasing its versatility and reliability as a waterproofing solution in construction projects. Elastomeric LAMs, once cured, form rubber-like barriers renowned for their exceptional waterproofing properties and remarkable elasticity. This elasticity allows the membranes to stretch and return to their original shape without sustaining damage, making them highly suitable for structures subject to structural movement or diverse weather conditions.

Elastomeric LAMs boast exceptional resistance properties, including resistance to environmental factors and chemicals. This resilience makes them an ideal choice for

projects exposed to harsh conditions or corrosive substances, ensuring long-term performance and durability. In the Indian construction industry, there's a growing emphasis on quality construction, prompting constructors and developers to seek reliable and high-performance materials like elastomeric LAMs. By integrating these membranes into construction projects, structures' durability and longevity can be significantly enhanced, aligning with the industry's focus on delivering exceptional quality and sustainability.

The utilization of elastomeric LAMs not only offers superior waterproofing but also contributes to buildings' long-term sustainability and resilience. With their ability to withstand structural movements and diverse weather conditions without compromising integrity, elastomeric LAMs provide a dependable solution that ensures enduring performance and protection for construction projects.

Regional Insights

Based on its region, the West India emerged as the leading market for Liquid Applied Membranes (LAMs) in India in 2024, driven by the region's vibrant construction industry and its unique environmental challenges. With Maharashtra and Gujarat at its forefront, West India is a hub for residential and commercial construction, with cities like Mumbai, Pune, and Ahmedabad witnessing rapid urban development.

The coastal climate of West India, characterized by heavy monsoon rains, underscores the importance of robust waterproofing solutions in construction projects. LAMs offer exceptional waterproofing capabilities, making them a preferred choice to safeguard buildings against water damage and moisture-related issues prevalent in the region. Additionally, the affluence of states in West India translates into a demand for premium construction projects that prioritize quality and durability. LAMs, known for their reliability and longevity, are favored for these prestigious developments, further driving their market growth in the region.

Key Market Players

Sika India Pvt. Ltd.

Pidilite Industries Limited

BASF India Limited

CICO Technologies Limited

Fosroc India Pvt. Ltd.

Report Scope:

In this report, the India Liquid Applied Membranes Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Liquid Applied Membranes Market, By Type:

Bituminous

Elastomeric

Cementitious

Others

India Liquid Applied Membranes Market, By End User:

Residential

Commercial

Public Infrastructure

India Liquid Applied Membranes Market, By Region:

North India

East India

West India

South India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Liquid Applied Membranes Market.

Available Customizations:

India Liquid Applied Membranes Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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