

Engineered Wood Adhesives Market by Resin (Melamine Formaldehyde, Phenol Resorcinol Formaldehyde), Product (CLT, OSB, MDF, LVL), Technology (Solvent-Based, Water-Based), Application (Structural, Non-Structural), and Region - Global Forecast to 2029

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Abstracts

The global engineered wood adhesives market size is projected to grow from USD 8.7 billion in 2024 to USD 10.5 billion, at a CAGR of 3.7%. Wood adhesives are essential for optimizing the use of timber resources, especially as the availability of large, quality trees decline. The wood industry has responded by developing innovative engineered wood products that leverage smaller logs, less desirable wood species, and previously unusable wood waste. These products, which include I-joists, glued laminated timber (glulam), and various forms of structural composite lumber such as LVL, PSL, LSL, and OSL, are designed to emulate the structural characteristics of solid-sawn lumber but with greater uniformity in their structural properties due to the removal of natural defects during manufacturing. These modern engineered wood products are integral to a wide range of construction applications, from architectural doors, windows, and frames to more ubiquitous elements like plywood, particleboard, medium-density fiberboard (MDF), and oriented strand board (OSB). The use of adhesives in these products not only facilitates the efficient use of wood but also enhances the performance characteristics of the final products, including their fire resistance.

The water-based segment is expected to register one of the highest market share during the forecast period

Water-based adhesives are emerging as a preferable alternative, especially under

tighter environmental regulations. These adhesives use water as a solvent, which significantly reduces VOC emissions. The primary advantages include safer working conditions and lower environmental impact. However, the performance of water-based adhesives generally lags behind solvent-based types in terms of water resistance and bonding strength under variable temperature conditions. Enhancements in chemical formulations are being developed to close this performance gap.

The structural segment is expected to register one of the highest market share during the forecast period

In the construction industry, the strategic utilization of engineered wood products such as plywood, cross-laminated timber (CLT), laminated veneer lumber (LVL), and oriented strand board (OSB) is pivotal due to their enhanced mechanical properties, environmental sustainability, and cost-effectiveness. Each of these products serves distinct structural roles and is engineered to meet specific performance criteria, making them indispensable in modern building practices.

Plywood is crafted through the layering and cross-sectional bonding of wood veneers, utilizing adhesives that enhance its structural integrity. This configuration grants plywood exceptional strength and resistance to warping, making it suitable for a wide range of applications including flooring, roofing, and wall sheathing. Its ability to distribute loads evenly across the grain makes it a reliable choice for demanding environments.

Asia Pacific engineered wood adhesives market is estimated to capture one of the highest share in terms of volume during the forecast period

The Asia Pacific region stands out as both the largest and fastest-growing market, driven by robust economic growth and significant investments in various end-use industries. The area's prominence is further reinforced by the strategic initiatives of global industry leaders who are establishing production facilities, opening sales offices, and expanding distribution networks within the region. These strategic decisions reflect the sustained demand in the region and aim to capitalize on its cost-effective production capabilities and dynamic market conditions to enhance profit margins.

Despite this positive outlook, the market faces several challenges that could impact its growth trajectory. Economic fluctuations, the instability of raw material costs, and intense competition among local players are significant obstacles that could hinder progress. Nevertheless, the rigorous enforcement of regulatory standards across the

region highlights the industry's commitment to quality and compliance with biocompatibility standards, ensuring that products meet the highest safety and performance criteria. This rigorous approach to regulation not only maintains product integrity but also supports sustainable market growth amidst these challenges.

The break-up of the profile of primary participants in the engineered wood adhesives market:

By Company Type: Tier 1 – 46%, Tier 2 – 36%, and Tier 3 – 18%

By Designation: C Level – 21%, D Level – 23%, and Others – 56%

By Region: North America – 37%, Europe – 23%, Asia Pacific– 26%, and Rest of the World– 14%

The key companies profiled in this report are H.B. Fuller Company (US), Henkel AG & Co., KGaA. (Germany), AkzoNobel N.V. (Netherlands), Arkema SA (France), BASF SE (Germany), Dow (US), Huntsman Corporation (US), AICA Kogyo Co., Ltd (Japan), Astral Limited (India), Hexion (US), and others.

Research Coverage:

The engineered wood adhesives market is segmented by Resin (Melamine Formaldehyde, Phenol Resorcinol Formaldehyde, Polyurethane, and Others), Product (Cross-Laminated Timber, Laminated Veneer Lumber, Oriented Strand Board, Glulam, Plywood, Medium Density Fiberboard, and Others), Technology (Solvent-Based, Water-Based, Solvent-Less, and Reactive), Application (Structural, and Non-Residential), and Region (North America, Europe, Asia Pacific, and Rest of the World). The study's coverage covers detailed information on the key factors influencing the growth of the engineered wood adhesives market, such as drivers, constraints, challenges, and opportunities. A thorough examination of the top industry players was carried out in order to provide insights into their company overview, solutions, and services; essential strategies; contracts, partnerships, and agreements. This includes coverage of new product and service launches, mergers and acquisitions, and ongoing developments in the engineered wood adhesives market. A competitive analysis of emerging companies in the engineered wood adhesives business ecosystem is included in this study.

Reasons to buy this report: The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the

overall engineered wood adhesives market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Growing demand for engineered wood adhesives in sustainable infrastructure where engineered wood is required), restraints (volatility in raw material prices), opportunities (collaboration of distributors in untapped markets), and challenges (stringent regulatory policies).

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the engineered wood adhesives market

Market Development: Comprehensive information about lucrative markets – the report analyses the engineered wood adhesives market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the engineered wood adhesives market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like H.B. Fuller Company (US), Henkel AG & Co., KGaA. (Germany), AkzoNobel N.V. (Netherlands), Arkema SA (France), BASF SE (Germany), Dow (US), Huntsman Corporation (US), AICA Kogyo Co., Ltd (Japan), Astral Limited (India), and Hexion (US). The report also helps stakeholders understand the pulse of the engineered wood adhesives market and provides them information on key market drivers, restraints, challenges, and opportunities.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS AND EXCLUSIONS

1.2.2 DEFINITION AND INCLUSIONS, BY RESIN TYPE

1.2.3 DEFINITION AND INCLUSIONS, BY PRODUCT

1.2.4 DEFINITION AND INCLUSIONS, BY TECHNOLOGY

1.2.5 DEFINITION AND INCLUSIONS, BY APPLICATION

1.3 MARKET SCOPE

FIGURE 1 ENGINEERED WOOD ADHESIVES MARKET SEGMENTATION

1.3.1 REGIONS COVERED

1.3.2 YEARS CONSIDERED

1.4 CURRENCY CONSIDERED

TABLE 1 USD EXCHANGE RATE, 2019–2022

1.5 UNITS CONSIDERED

1.6 STAKEHOLDERS

1.7 RECESSION IMPACT

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 ENGINEERED WOOD ADHESIVES MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Breakdown of interviews with experts

FIGURE 3 BREAKDOWN OF INTERVIEWS WITH EXPERTS

2.1.2.3 Primary data sources

2.1.2.4 Key industry insights

2.2 MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

FIGURE 4 MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH

2.2.2 TOP-DOWN APPROACH

FIGURE 5 MARKET SIZE ESTIMATION: TOP-DOWN APPROACH

FIGURE 6 ENGINEERED WOOD ADHESIVES MARKET ESTIMATION, BY RESIN

TYPE

FIGURE 7 ENGINEERED WOOD ADHESIVES MARKET SIZE ESTIMATION, BY REGION

2.3 MARKET FORECAST APPROACH

2.3.1 SUPPLY-SIDE FORECAST

FIGURE 8 ENGINEERED WOOD ADHESIVES MARKET: SUPPLY-SIDE FORECAST

2.3.2 DEMAND-SIDE FORECAST

FIGURE 9 ENGINEERED WOOD ADHESIVES MARKET: DEMAND-SIDE FORECAST

FIGURE 10 METHODOLOGY FOR SUPPLY-SIDE SIZING OF ENGINEERED WOOD ADHESIVES MARKET

2.4 FACTOR ANALYSIS

FIGURE 11 MAJOR FACTORS RESPONSIBLE FOR GLOBAL RECESSION AND THEIR IMPACT ON MARKET

2.5 DATA TRIANGULATION

FIGURE 12 ENGINEERED WOOD ADHESIVES MARKET: DATA TRIANGULATION

2.6 ASSUMPTIONS

2.7 LIMITATIONS

2.8 GROWTH FORECAST

2.9 RISK ASSESSMENT

TABLE 2 ENGINEERED WOOD ADHESIVES MARKET: RISK ASSESSMENT

2.10 RECESSION IMPACT ANALYSIS

3 EXECUTIVE SUMMARY

TABLE 3 ENGINEERED WOOD ADHESIVES MARKET SNAPSHOT (2024 VS. 2029)

FIGURE 13 MELAMINE FORMALDEHYDE TO BE LARGEST RESIN SEGMENT IN ENGINEERED WOOD ADHESIVES MARKET

FIGURE 14 PLYWOOD TO DOMINATE OVERALL MARKET DURING FORECAST PERIOD

FIGURE 15 MEDIUM DENSITY FIBERBOARD TO DOMINATE MARKET DURING FORECAST PERIOD

FIGURE 16 NON-STRUCTURAL APPLICATION TO ACCOUNT FOR LARGER SHARE OF ENGINEERED WOOD ADHESIVES MARKET

FIGURE 17 ASIA PACIFIC TO RECORD HIGHEST CAGR DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN ENGINEERED WOOD

ADHESIVES MARKET

FIGURE 18 EMERGING ECONOMIES TO OFFER LUCRATIVE GROWTH OPPORTUNITIES FOR MARKET PLAYERS

4.2 ENGINEERED WOOD ADHESIVES MARKET, BY RESIN

FIGURE 19 MELAMINE FORMALDEHYDE SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD

4.3 ENGINEERED WOOD ADHESIVES MARKET IN ASIA PACIFIC, BY RESIN TYPE AND COUNTRY

FIGURE 20 CHINA ACCOUNTED FOR LARGEST SHARE OF ENGINEERED WOOD ADHESIVES MARKET IN ASIA PACIFIC

4.4 ENGINEERED WOOD ADHESIVES MARKET, DEVELOPED VS. EMERGING ECONOMIES

FIGURE 21 EMERGING COUNTRIES TO REGISTER HIGHER GROWTH DURING FORECAST PERIOD

4.5 ENGINEERED WOOD ADHESIVES MARKET, BY KEY COUNTRIES

FIGURE 22 INDIA TO RECORD HIGHEST GROWTH DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 TYPES OF ADHESIVES USED IN MODERN WOOD PRODUCTS

5.3 ENGINEERED WOOD ADHESIVE PROJECTS

5.4 KEY EMERGING ECONOMIES VS. EU27 AND US

FIGURE 23 AVERAGE CHEMICAL PRODUCTION GROWTH PER ANNUM (2011–2021)

5.5 MARKET DYNAMICS

FIGURE 24 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN ENGINEERED WOOD ADHESIVES MARKET

5.5.1 DRIVERS

5.5.1.1 Growth of building & construction industry in emerging economies

5.5.1.2 Increasing urban population

5.5.1.3 Rising demand in North America

5.5.1.4 Capacity expansion to cater to increasing demand

5.5.2 RESTRAINTS

5.5.2.1 Volatility in raw material prices

5.5.3 OPPORTUNITIES

5.5.3.1 Establishing authenticity through various certifications

5.5.3.2 Rising demand for sustainable infrastructure

5.5.4 CHALLENGES

5.5.4.1 Shifting rules and changing standards

5.6 PORTER'S FIVE FORCES ANALYSIS

TABLE 4 ENGINEERED WOOD ADHESIVES MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 25 PORTER'S FIVE FORCES ANALYSIS: ENGINEERED WOOD ADHESIVES MARKET

5.6.1 THREAT FROM NEW ENTRANTS

5.6.2 THREAT OF SUBSTITUTES

5.6.3 BARGAINING POWER OF BUYERS

5.6.4 BARGAINING POWER OF SUPPLIERS

5.6.5 INTENSITY OF COMPETITIVE RIVALRY

5.7 KEY STAKEHOLDERS AND BUYING CRITERIA

5.7.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 26 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS

TABLE 5 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP APPLICATIONS (%)

5.7.2 BUYING CRITERIA

FIGURE 27 KEY BUYING CRITERIA FOR ENGINEERED WOOD ADHESIVES

TABLE 6 KEY BUYING CRITERIA FOR ENGINEERED WOOD ADHESIVES

5.8 MACROECONOMIC INDICATORS

5.8.1 INTRODUCTION

5.8.2 GDP TRENDS AND FORECAST

TABLE 7 GDP TRENDS AND FORECAST, PERCENTAGE CHANGE (2020–2027)

5.8.3 TRENDS IN GLOBAL CONSTRUCTION INDUSTRY

5.9 SUPPLY CHAIN ANALYSIS

FIGURE 28 ENGINEERED WOOD ADHESIVES MARKET: SUPPLY CHAIN ANALYSIS

5.10 PRICING ANALYSIS

5.10.1 AVERAGE SELLING PRICE TREND, BY REGION

FIGURE 29 AVERAGE SELLING PRICE TREND OF ENGINEERED WOOD ADHESIVES, BY REGION, 2021–2024

TABLE 8 AVERAGE SELLING PRICE OF ENGINEERED WOOD ADHESIVES, BY REGION, 2022–2023 (USD/KG)

5.10.2 AVERAGE SELLING PRICE TREND, BY RESIN TYPE

FIGURE 30 AVERAGE SELLING PRICE TREND OF ENGINEERED WOOD ADHESIVES, BY RESIN TYPE (2023)

5.10.3 AVERAGE SELLING PRICE TREND, BY STRUCTURAL PRODUCT

FIGURE 31 AVERAGE SELLING PRICE TREND OF ENGINEERED WOOD ADHESIVES, BY STRUCTURAL PRODUCT (2023)

5.10.4 AVERAGE SELLING PRICE TREND, BY NON-STRUCTURAL PRODUCT
FIGURE 32 AVERAGE SELLING PRICE TREND OF ENGINEERED WOOD ADHESIVES, BY NON-STRUCTURAL PRODUCT (2023)

5.10.5 AVERAGE SELLING PRICE TREND, BY APPLICATION
FIGURE 33 AVERAGE SELLING PRICE TREND OF ENGINEERED WOOD ADHESIVES, BY APPLICATION (2023)

5.10.6 AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY APPLICATION
FIGURE 34 AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY APPLICATION

TABLE 9 AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY TOP APPLICATIONS, 2023 (USD/KG)

5.11 TRADE ANALYSIS

5.11.1 EXPORT SCENARIO

FIGURE 35 REGION-WISE EXPORT DATA, 2019–2023 (USD THOUSAND)

TABLE 10 COUNTRY-WISE EXPORT DATA, 2021–2023 (USD THOUSAND)

5.11.2 IMPORT SCENARIO

FIGURE 36 REGION-WISE IMPORT DATA, 2019–2023 (USD THOUSAND)

TABLE 11 COUNTRY-WISE IMPORT DATA, 2021–2023 (USD THOUSAND)

5.12 REGULATORY LANDSCAPE AND STANDARDS

5.12.1 REGULATIONS IMPACTING ENGINEERED WOOD ADHESIVES BUSINESS

TABLE 12 EMISSION LIMITS FOR ENGINEERED WOOD PRODUCTS

5.12.1.1 Frequent questions asked

5.12.2 WOOD MANUFACTURING REGULATIONS

5.12.3 ENVIRONMENTAL REGULATIONS FOR WOOD MANUFACTURING

5.12.3.1 Clean Air Act

5.12.3.2 Clean Water Act

5.12.3.3 Toxic Substances Control Act (TSCA)

5.12.4 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.13 ECOSYSTEM/MARKET MAP

TABLE 16 ENGINEERED WOOD ADHESIVES MARKET: ROLE IN ECOSYSTEM

FIGURE 37 ENGINEERED WOOD ADHESIVES MARKET: ECOSYSTEM MAPPING

FIGURE 38 ENGINEERED WOOD ADHESIVES: ECOSYSTEM ANALYSIS

- 5.14 TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS
 - FIGURE 39 TRENDS IN END-USE INDUSTRIES IMPACTING BUSINESS OF ENGINEERED WOOD ADHESIVE MANUFACTURERS
- 5.15 INVESTMENT AND FUNDING SCENARIO
 - TABLE 17 INVESTMENT AND FUNDING SCENARIO
- 5.16 PATENT ANALYSIS
 - 5.16.1 METHODOLOGY
 - 5.16.2 PUBLICATION TRENDS
 - FIGURE 40 PUBLISHED PATENTS, 2019–2023
 - 5.16.3 JURISDICTION ANALYSIS
 - FIGURE 41 PATENTS PUBLISHED BY JURISDICTION, 2019–2023
 - 5.16.4 TOP APPLICANTS
 - FIGURE 42 PATENTS PUBLISHED BY MAJOR APPLICANTS, 2019–2023
 - TABLE 18 TOP PATENT OWNERS
 - FIGURE 43 TOP PATENT APPLICANTS
- 5.17 TECHNOLOGY ANALYSIS
 - 5.17.1 KEY TECHNOLOGIES
 - 5.17.1.1 Melamine formaldehyde
 - 5.17.1.2 Phenol resorcinol formaldehyde
 - 5.17.2 COMPLIMENTARY TECHNOLOGIES
 - 5.17.2.1 Polyurethane
 - 5.17.3 ADJACENT TECHNOLOGIES
 - 5.17.3.1 Dowel-laminated timber
 - 5.17.3.2 Mechanical fasteners
- 5.18 GLOBAL ECONOMIC SCENARIO AFFECTING MARKET GROWTH
 - 5.18.1 RUSSIA–UKRAINE WAR
 - 5.18.2 CHINA
 - 5.18.2.1 Decreasing FDI cooling China's growth trajectory
 - 5.18.2.2 Environmental commitments
 - 5.18.3 EUROPE
 - 5.18.3.1 Energy crisis in Europe
 - 5.18.4 CHOKEPOINTS THREATENING GLOBAL TRADE
 - 5.18.5 OUTLOOK FOR CHEMICAL INDUSTRY
- 5.19 CASE STUDY ANALYSIS
 - 5.19.1 CASE STUDY 1
 - 5.19.2 CASE STUDY 2
 - 5.19.3 CASE STUDY 3
- 5.20 KEY CONFERENCES AND EVENTS
 - TABLE 19 ENGINEERED WOOD ADHESIVES MARKET: KEY CONFERENCES AND

EVENTS, 2024–2025

6 ENGINEERED WOOD ADHESIVES MARKET, BY RESIN TYPE

6.1 INTRODUCTION

FIGURE 44 MELAMINE FORMALDEHYDE TO ACCOUNT FOR LARGEST SHARE OF ENGINEERED WOOD ADHESIVES MARKET

TABLE 20 ENGINEERED WOOD ADHESIVES MARKET, BY RESIN TYPE, 2021–2029 (USD MILLION)

TABLE 21 ENGINEERED WOOD ADHESIVES MARKET, BY RESIN TYPE, 2021–2029 (KILOTON)

6.2 MELAMINE FORMALDEHYDE

6.2.1 UREA

6.2.1.1 Superior bond and cost-effectiveness boosting demand

6.2.2 MELAMINE UREA FORMALDEHYDE

6.2.2.1 High performance and cost-efficiency to boost demand

TABLE 22 MELAMINE FORMALDEHYDE: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (USD MILLION)

TABLE 23 MELAMINE FORMALDEHYDE: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (KILOTON)

6.3 PHENOL RESORCINOL FORMALDEHYDE

6.3.1 ENHANCED DURABILITY AND STABILITY TO DRIVE DEMAND

TABLE 24 PHENOL RESORCINOL FORMALDEHYDE: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (USD MILLION)

TABLE 25 PHENOL RESORCINOL FORMALDEHYDE: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (KILOTON)

6.4 POLYURETHANE

6.4.1 ROBUST FLEXIBILITY AND EXCELLENT MOISTURE RESISTANCE TO FUEL DEMAND

TABLE 26 POLYURETHANE: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (USD MILLION)

TABLE 27 POLYURETHANE: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (KILOTON)

6.5 OTHER RESIN TYPES

TABLE 28 OTHER RESIN TYPES: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (USD MILLION)

TABLE 29 OTHER RESIN TYPES: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (KILOTON)

7 ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT

7.1 INTRODUCTION

FIGURE 45 PLYWOOD TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 46 MEDIUM DENSITY FIBERBOARD TO LEAD MARKET IN NON-STRUCTURAL PRODUCT SEGMENT

TABLE 30 ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (STRUCTURAL), 2021–2029 (USD MILLION)

TABLE 31 ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (STRUCTURAL), 2021–2029 (KILOTON)

TABLE 32 ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (NON-STRUCTURAL), 2021–2029 (USD MILLION)

TABLE 33 ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (NON-STRUCTURAL), 2021–2029 (KILOTON)

7.1.1 STRUCTURAL

7.1.1.1 Plywood

7.1.1.1.1 Prominent usage in multiple construction activities to fuel demand

7.1.1.2 Oriented strand board

7.1.1.2.1 Versatile properties suitable for structural applications to drive market

7.1.1.3 Other structural products

7.1.1.3.1 Cross-laminated timber

7.1.1.3.2 Glulam

7.1.1.3.3 Laminated veneer lumber

TABLE 34 PLYWOOD: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (USD MILLION)

TABLE 35 PLYWOOD: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (KILOTON)

TABLE 36 ORIENTED STRAND BOARD: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (USD MILLION)

TABLE 37 ORIENTED STRAND BOARD: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (KILOTON)

TABLE 38 OTHER STRUCTURAL PRODUCTS: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (USD MILLION)

TABLE 39 OTHER STRUCTURAL PRODUCTS: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (KILOTON)

7.1.2 NON-STRUCTURAL

7.1.2.1 Medium density fiberboard

7.1.2.1.1 Structural stability and strength to drive demand

7.1.2.2 Particle board

7.1.2.2.1 Furniture and construction industries to drive market

7.1.3 OTHERS

TABLE 40 MEDIUM DENSITY FIBERBOARD: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (USD MILLION)

TABLE 41 MEDIUM DENSITY FIBERBOARD: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (KILOTON)

TABLE 42 PARTICLE BOARD: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (USD MILLION)

TABLE 43 PARTICLE BOARD: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (KILOTON)

TABLE 44 OTHER NON-STRUCTURAL PRODUCTS: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (USD MILLION)

TABLE 45 OTHER NON-STRUCTURAL PRODUCTS: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (KILOTON)

8 ENGINEERED WOOD ADHESIVES MARKET, BY TECHNOLOGY

8.1 INTRODUCTION

8.2 SOLVENT-BASED

8.2.1 ROBUST PERFORMANCE AND HIGH STRENGTH TO DRIVE DEMAND

8.3 WATER-BASED

8.3.1 EMERGING ECONOMIES TO FUEL DEMAND FOR WATER-BASED ADHESIVES

8.4 SOLVENT-LESS

8.4.1 GROWING DEMAND FROM CONSTRUCTION SECTOR TO DRIVE MARKET

8.5 REACTIVE TECHNOLOGY

8.5.1 EPOXY

8.5.1.1 Resistant to moisture and UV light to fuel demand

8.5.2 POLYURETHANE

8.5.2.1 High durability and structural integrity to support market growth

8.5.3 CYANOACRYLATE

8.5.3.1 Minimal clamp time and durable adhesive to drive demand

8.5.4 POLYISOCYANATE

8.5.4.1 Structural integrity and longevity to drive market

9 ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION

9.1 INTRODUCTION

FIGURE 47 NON-STRUCTURAL SEGMENT TO DOMINATE OVERALL ENGINEERED WOOD ADHESIVES MARKET

TABLE 46 ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 47 ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

9.2 STRUCTURAL

9.2.1 STRUCTURAL APPLICATION TO REGISTER HIGH GROWTH RATE DURING FORECAST PERIOD

TABLE 48 STRUCTURAL: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (USD MILLION)

TABLE 49 STRUCTURAL: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (KILOTON)

9.3 NON-STRUCTURAL

9.3.1 AESTHETIC ADAPTABILITY AND COST-EFFECTIVENESS DRIVING DEMAND IN NON-STRUCTURAL APPLICATIONS

TABLE 50 NON-NSTRUCTURAL: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (USD MILLION)

TABLE 51 NON-STRUCTURAL: ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (KILOTON)

10 ENGINEERED WOOD ADHESIVES MARKET, BY REGION

10.1 INTRODUCTION

TABLE 52 GLOBAL CONSTRUCTION OUTLOOK

FIGURE 48 SHARE OF BUILDINGS IN TOTAL FINAL ENERGY CONSUMPTION IN 2022

FIGURE 49 SHARE OF BUILDINGS IN TOTAL FINAL ENERGY CONSUMPTION IN 2022

FIGURE 50 ASIA PACIFIC TO REGISTER HIGHEST CAGR FOR ENGINEERED WOOD ADHESIVES BETWEEN 2024 AND 2029

TABLE 53 ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (USD MILLION)

TABLE 54 ENGINEERED WOOD ADHESIVES MARKET, BY REGION, 2021–2029 (KILOTON)

10.2 NORTH AMERICA

TABLE 55 NORTH AMERICA: SUMMARY TABLE OF MARKET FORECASTS FOR 2023 AND 2024

10.2.1 RECESSION IMPACT

**FIGURE 51 NORTH AMERICA: ENGINEERED WOOD ADHESIVES MARKET
SNAPSHOT****TABLE 56 NORTH AMERICA: ENGINEERED WOOD ADHESIVES MARKET, BY
COUNTRY, 2021–2029 (USD MILLION)****TABLE 57 NORTH AMERICA: ENGINEERED WOOD ADHESIVES MARKET, BY
COUNTRY, 2021–2029 (KILOTON)****TABLE 58 NORTH AMERICA: ENGINEERED WOOD ADHESIVES MARKET, BY
RESIN TYPE, 2021–2029 (USD MILLION)****TABLE 59 NORTH AMERICA: ENGINEERED WOOD ADHESIVES MARKET, BY
RESIN TYPE, 2021–2029 (KILOTON)****TABLE 60 NORTH AMERICA: ENGINEERED WOOD ADHESIVES MARKET, BY
PRODUCT (STRUCTURAL), 2021–2029 (USD MILLION)****TABLE 61 NORTH AMERICA: ENGINEERED WOOD ADHESIVES MARKET, BY
PRODUCT (STRUCTURAL), 2021–2029 (KILOTON)****TABLE 62 NORTH AMERICA: ENGINEERED WOOD ADHESIVES MARKET, BY
PRODUCT (NON-STRUCTURAL), 2021–2029 (USD MILLION)****TABLE 63 NORTH AMERICA: ENGINEERED WOOD ADHESIVES MARKET, BY
PRODUCT (NON-STRUCTURAL), 2021–2029 (KILOTON)****TABLE 64 NORTH AMERICA: ENGINEERED WOOD ADHESIVES MARKET, BY
APPLICATION, 2021–2029 (USD MILLION)****TABLE 65 NORTH AMERICA: ENGINEERED WOOD ADHESIVES MARKET, BY
APPLICATION, 2021–2029 (KILOTON)****10.2.2 US****10.2.2.1 Presence of major manufacturers to drive market****TABLE 66 US: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION,
2021–2029 (USD MILLION)****TABLE 67 US: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION,
2021–2029 (KILOTON)****10.2.3 CANADA****10.2.3.1 Residential construction to drive market****TABLE 68 CANADA: ENGINEERED WOOD ADHESIVES MARKET, BY
APPLICATION, 2021–2029 (USD MILLION)****TABLE 69 CANADA: ENGINEERED WOOD ADHESIVES MARKET, BY
APPLICATION, 2021–2029 (KILOTON)****10.2.4 MEXICO****10.2.4.1 Investments in infrastructure, energy, and commercial construction projects
to drive market****TABLE 70 MEXICO: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION,
2021–2029 (USD MILLION)**

TABLE 71 MEXICO: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3 EUROPE

10.3.1 RECESSION IMPACT

FIGURE 52 EUROPE: ENGINEERED WOOD ADHESIVES MARKET SNAPSHOT

TABLE 72 EUROPE: ENGINEERED WOOD ADHESIVES MARKET, BY COUNTRY, 2021–2029 (USD MILLION)

TABLE 73 EUROPE: ENGINEERED WOOD ADHESIVES MARKET, BY COUNTRY 2021–2029 (KILOTON)

TABLE 74 EUROPE: ENGINEERED WOOD ADHESIVES MARKET, BY RESIN TYPE, 2021–2029 (USD MILLION)

TABLE 75 EUROPE: ENGINEERED WOOD ADHESIVES MARKET, BY RESIN TYPE, 2021–2029 (KILOTON)

TABLE 76 EUROPE: ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (STRUCTURAL), 2021–2029 (USD MILLION)

TABLE 77 EUROPE: ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (STRUCTURAL), 2021–2029 (KILOTON)

TABLE 78 EUROPE: ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (NON-STRUCTURAL), 2021–2029 (USD MILLION)

TABLE 79 EUROPE: ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (NON-STRUCTURAL), 2021–2029 (KILOTON)

TABLE 80 EUROPE: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 81 EUROPE: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.2 GERMANY

10.3.2.1 Infrastructure enhancement and high for commercial projects upthrust the demand

TABLE 82 GERMANY: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 83 GERMANY: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.3 AUSTRIA

10.3.3.1 Resurgence of wooden commercial projects to drive demand

TABLE 84 AUSTRIA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 85 AUSTRIA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.4 SWITZERLAND

10.3.4.1 High R&D investments and economic growth propelling demand

TABLE 86 CONSTRUCTION AND HOUSING KEY FIGURES

TABLE 87 SWITZERLAND: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 88 SWITZERLAND: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.5 ITALY

10.3.5.1 High disposable income and rising FII investments

TABLE 89 ITALY: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 90 ITALY: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.6 UK

10.3.6.1 Growing construction sector to boost demand

TABLE 91 UK: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 92 UK: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.7 FRANCE

10.3.7.1 Population growth to generate demand for residential construction to increase demand

TABLE 93 FRANCE: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 94 FRANCE: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.8 TURKEY

10.3.8.1 Recovery of construction industry to increase demand

TABLE 95 TURKEY: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 96 TURKEY: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.9 DENMARK

10.3.9.1 Strong infrastructure growth to support demand

TABLE 97 DENMARK: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 98 DENMARK: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.10 NORWAY

10.3.10.1 Green building projects and stricter building codes to increase demand

TABLE 99 NORWAY: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 100 NORWAY: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.11 SWEDEN

10.3.11.1 Strategic public-private partnership projects across country to drive market

TABLE 101 SWEDEN: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 102 SWEDEN: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.12 FINLAND

10.3.12.1 Rising residential construction to increase demand

TABLE 103 FINLAND: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 104 FINLAND: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.13 SLOVAKIA

10.3.13.1 Economic recovery and rising investment to stabilize demand

TABLE 105 SLOVAKIA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 106 SLOVAKIA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.14 CZECH REPUBLIC

10.3.14.1 Moderate growth and residential housing sector recovery hold demand

TABLE 107 CZECH REPUBLIC: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 108 CZECH REPUBLIC: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.3.15 REST OF EUROPE

TABLE 109 REST OF EUROPE: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 110 REST OF EUROPE: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.4 ASIA PACIFIC

10.4.1 RECESSION IMPACT

FIGURE 53 ASIA PACIFIC: ENGINEERED WOOD ADHESIVES MARKET SNAPSHOT

TABLE 111 ASIA PACIFIC: ENGINEERED WOOD ADHESIVES MARKET, BY COUNTRY, 2021–2029 (USD MILLION)

TABLE 112 ASIA PACIFIC: ENGINEERED WOOD ADHESIVES MARKET, BY

COUNTRY 2021–2029 (KILOTON)

TABLE 113 ASIA PACIFIC: ENGINEERED WOOD ADHESIVES MARKET, BY RESIN TYPE, 2021–2029 (USD MILLION)

TABLE 114 ASIA PACIFIC: ENGINEERED WOOD ADHESIVES MARKET, BY RESIN TYPE, 2021–2029 (KILOTON)

TABLE 115 ASIA PACIFIC: ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (STRUCTURAL), 2021–2029 (USD MILLION)

TABLE 116 ASIA PACIFIC: ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (STRUCTURAL), 2021–2029 (KILOTON)

TABLE 117 ASIA PACIFIC: ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (NON-STRUCTURAL), 2021–2029 (USD MILLION)

TABLE 118 ASIA PACIFIC: ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (NON-STRUCTURAL), 2021–2029 (KILOTON)

TABLE 119 ASIA PACIFIC: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 120 ASIA PACIFIC: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.4.2 CHINA

10.4.2.1 Significant increase in investments in real estate and non-residential construction to boost market

TABLE 121 CHINA: TIMBER PRODUCTION BY PROVINCE, 2020–2021

TABLE 122 CHINA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 123 CHINA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.4.3 INDIA

10.4.3.1 Emerging economy and rising FDI investment to drive market

TABLE 124 INDIA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 125 INDIA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.4.4 JAPAN

10.4.4.1 Investments by government in commercial and reconstruction to boost demand

FIGURE 54 WOOD SUPPLY IN JAPAN (BY COUNTRY)

TABLE 126 JAPAN: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 127 JAPAN: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.4.5 SOUTH KOREA

10.4.5.1 Significant expenditure on construction projects to increase demand

TABLE 128 SOUTH KOREA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 129 SOUTH KOREA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.4.6 INDONESIA

10.4.6.1 Rising consumer spending and growing construction industry to boost market

TABLE 130 INDONESIA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 131 INDONESIA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.4.7 THAILAND

10.4.7.1 Enhancing tourism, stabilizing private consumption, and boosting public investment to boost market

TABLE 132 THAILAND: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 133 THAILAND: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.4.8 MALAYSIA

10.4.8.1 Sustaining domestic demand and rising exports to boost market

TABLE 134 MALAYSIA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 135 MALAYSIA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.4.9 AUSTRALIA AND NEW ZEALAND

10.4.9.1 Sustainable construction to uphold demand

TABLE 136 AUSTRALIA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 137 AUSTRALIA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.4.10 REST OF ASIA PACIFIC

TABLE 138 REST OF ASIA PACIFIC: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 139 REST OF ASIA PACIFIC: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.5 REST OF THE WORLD

10.5.1 RECESSION IMPACT

FIGURE 55 BRAZIL TO REGISTER HIGHEST CAGR BETWEEN 2024 AND 2029
TABLE 140 REST OF THE WORLD: ENGINEERED WOOD ADHESIVES MARKET, BY COUNTRY, 2021–2029 (USD MILLION)

TABLE 141 REST OF THE WORLD: ENGINEERED WOOD ADHESIVES MARKET, BY COUNTRY, 2021–2029 (KILOTON)

TABLE 142 REST OF THE WORLD: ENGINEERED WOOD ADHESIVES MARKET, BY RESIN TYPE, 2021–2029 (USD MILLION)

TABLE 143 REST OF THE WORLD: ENGINEERED WOOD ADHESIVES MARKET, BY RESIN TYPE, 2021–2029 (KILOTON)

TABLE 144 REST OF THE WORLD: ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (STRUCTURAL), 2021–2029 (USD MILLION)

TABLE 145 REST OF THE WORLD: ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (STRUCTURAL), 2021–2029 (KILOTON)

TABLE 146 REST OF THE WORLD: ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (NON-STRUCTURAL), 2021–2029 (USD MILLION)

TABLE 147 REST OF THE WORLD: ENGINEERED WOOD ADHESIVES MARKET, BY PRODUCT (NON-STRUCTURAL), 2021–2029 (KILOTON)

TABLE 148 REST OF THE WORLD: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 149 REST OF THE WORLD: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.5.2 BRAZIL

10.5.2.1 Easy availability of raw materials to propel market growth

TABLE 150 BRAZIL: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 151 BRAZIL: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.5.3 ARGENTINA

10.5.3.1 Increase in population and improved economic conditions to drive demand

TABLE 152 ARGENTINA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 153 ARGENTINA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.5.4 SOUTH AFRICA

10.5.4.1 Growing building projects to increase demand

TABLE 154 SOUTH AFRICA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 155 SOUTH AFRICA: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

10.5.5 OTHER COUNTRIES

TABLE 156 OTHER COUNTRIES: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (USD MILLION)

TABLE 157 OTHER COUNTRIES: ENGINEERED WOOD ADHESIVES MARKET, BY APPLICATION, 2021–2029 (KILOTON)

11 COMPETITIVE LANDSCAPE

11.1 KEY PLAYER STRATEGIES

11.1.1 BY KEY PLAYERS STRATEGIES/RIGHT TO WIN, (JANUARY 2018 TO DECEMBER 2023)

TABLE 158 OVERVIEW OF STRATEGIES ADOPTED BY KEY MARKET PLAYERS (JANUARY 2018 TO DECEMBER 2023)

11.2 MARKET SHARE ANALYSIS

FIGURE 56 MARKET SHARE ANALYSIS, 2023

TABLE 159 ENGINEERED WOOD ADHESIVES MARKET: DEGREE OF COMPETITION

11.2.1 MARKET RANKING ANALYSIS

FIGURE 57 MARKET RANKING ANALYSIS, 2023

11.3 TOP 5 PLAYERS' REVENUE ANALYSIS

FIGURE 58 MARKET REVENUE ANALYSIS OF TOP FIVE PLAYERS

11.4 COMPANY VALUATION AND FINANCIAL METRICS, 2023

11.4.1 COMPANY VALUATION

FIGURE 59 COMPANY VALUATION

11.4.2 FINANCIAL METRICS

FIGURE 60 FINANCIAL METRICS

11.5 BRAND/PRODUCT COMPARATIVE ANALYSIS

11.5.1 BRAND/PRODUCT COMPARATIVE ANALYSIS

FIGURE 61 BRAND/PRODUCT COMPARATIVE ANALYSIS

11.6 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023

11.6.1 STARS

11.6.2 EMERGING LEADERS

11.6.3 PERVASIVE PLAYERS

11.6.4 PARTICIPANTS

FIGURE 62 ENGINEERED WOOD ADHESIVES MARKET: COMPANY EVALUATION MATRIX, KEY PLAYERS, 2023

FIGURE 63 PRODUCT FOOTPRINT (25 COMPANIES)

11.6.5 COMPANY FOOTPRINT: KEY PLAYERS

TABLE 160 COMPANY FOOTPRINT (25 COMPANIES)

TABLE 161 REGION FOOTPRINT (25 COMPANIES)
TABLE 162 APPLICATION FOOTPRINT (25 COMPANIES)
TABLE 163 RESIN TYPE FOOTPRINT (25 COMPANIES)
TABLE 164 PRODUCT FOOTPRINT (25 COMPANIES)
11.7 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023
 11.7.1 PROGRESSIVE COMPANIES
 11.7.2 RESPONSIVE COMPANIES
 11.7.3 DYNAMIC COMPANIES
 11.7.4 STARTING BLOCKS
FIGURE 64 ENGINEERED WOOD ADHESIVES MARKET: COMPANY EVALUATION MATRIX, STARTUPS/SMES, 2023
 11.7.5 COMPETITIVE BENCHMARKING
 11.7.5.1 Detailed list of key startups/SMEs
TABLE 165 ENGINEERED WOOD ADHESIVES MARKET: DETAILED LIST OF KEY STARTUPS/SMES
 11.7.5.2 Competitive benchmarking of key startups/SMEs
TABLE 166 ENGINEERED WOOD ADHESIVES MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS (STARTUPS/SMES)
11.8 COMPETITIVE SCENARIO AND TRENDS
 11.8.1 ENGINEERED WOOD ADHESIVES MARKET: PRODUCT LAUNCHES, JANUARY 2018–DECEMBER 2023
TABLE 167 ENGINEERED WOOD ADHESIVES MARKET: PRODUCT LAUNCHES, JANUARY 2018–DECEMBER 2023
 11.8.2 ENGINEERED WOOD ADHESIVES MARKET: DEALS, JANUARY 2018–DECEMBER 2023
TABLE 168 ENGINEERED WOOD ADHESIVES MARKET: DEALS, JANUARY 2018–DECEMBER 2023
 11.8.3 ENGINEERED WOOD ADHESIVES MARKET: EXPANSIONS, JANUARY 2018–DECEMBER 2023
TABLE 169 ENGINEERED WOOD ADHESIVES MARKET: EXPANSIONS, JANUARY 2018–DECEMBER 2023

12 COMPANY PROFILES

(Business overview, Products/Solutions/Services offered, Recent Developments, MnM view, Key strengths, Strategic choices, Weaknesses and competitive threats) *

12.1 MAJOR PLAYERS
 12.1.1 H.B. FULLER COMPANY

TABLE 170 H.B. FULLER COMPANY: BUSINESS OVERVIEW

FIGURE 65 H.B. FULLER COMPANY: COMPANY SNAPSHOT

TABLE 171 H.B. FULLER COMPANY: PRODUCTS/SERVICES/SOLUTIONS
OFFERED

TABLE 172 H.B. FULLER COMPANY: DEALS, JANUARY 2018–DECEMBER 2023

TABLE 173 H.B. FULLER COMPANY: EXPANSIONS, JANUARY 2018– DECEMBER
2023

12.1.2 HENKEL AG & CO. KGAA

TABLE 174 HENKEL AG & CO. KGAA: COMPANY OVERVIEW

FIGURE 66 HENKEL AG & CO. KGAA: COMPANY SNAPSHOT

TABLE 175 HENKEL AG & CO. KGAA: DEALS, JANUARY 2018–DECEMBER 2023

TABLE 176 HENKEL AG & CO. KGAA: EXPANSIONS, JANUARY 2018–DECEMBER
2023

12.1.3 AKZO NOBEL N.V.

TABLE 177 AKZO NOBEL N.V.: COMPANY OVERVIEW

FIGURE 67 AKZO NOBEL N.V.: COMPANY SNAPSHOT

12.1.4 ARKEMA SA

TABLE 178 ARKEMA SA: COMPANY OVERVIEW

FIGURE 68 ARKEMA SA: COMPANY SNAPSHOT

TABLE 179 ARKEMA SA: DEALS, JANUARY 2018–DECEMBER 2023

12.1.5 BASF SE (JANUARY 2018 – DECEMBER 2023)

TABLE 180 BASF SE: COMPANY OVERVIEW

FIGURE 69 BASF SE: COMPANY SNAPSHOT

TABLE 181 BASF SE: PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

TABLE 182 BASF SE: DEALS, JANUARY 2018–DECEMBER 2023

12.1.6 DOW

TABLE 183 DOW: COMPANY OVERVIEW

FIGURE 70 DOW: COMPANY SNAPSHOT

12.1.7 HUNTSMAN CORPORATION

TABLE 184 HUNTSMAN CORPORATION: COMPANY OVERVIEW

FIGURE 71 HUNTSMAN CORPORATION: COMPANY SNAPSHOT

TABLE 185 HUNTSMAN CORPORATION: DEALS, JANUARY 2018–DECEMBER
2023

12.1.8 AICA KOGYO CO., LTD.

TABLE 186 AICA KOGYO CO., LTD.: COMPANY OVERVIEW

FIGURE 72 AICA KOGYO CO., LTD.: COMPANY SNAPSHOT

TABLE 187 AICA KOGYO CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES
OFFERINGS

12.1.9 ASTRAL LIMITED

TABLE 188 ASTRAL LIMITED: COMPANY OVERVIEW

FIGURE 73 ASTRAL LIMITED: COMPANY SNAPSHOT

TABLE 189 ASTRAL LIMITED: PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

12.1.10 HEXION

TABLE 190 HEXION: COMPANY OVERVIEW

TABLE 191 HEXION: PRODUCTS/SERVICES/SOLUTIONS OFFERED

12.1.11 CHEMIQUE ADHESIVES & SEALANTS LTD.

TABLE 192 CHEMIQUE ADHESIVES & SEALANTS LTD.: COMPANY OVERVIEW

TABLE 193 CHEMIQUE ADHESIVES & SEALANTS LTD.: PRODUCTS/SOLUTIONS/
SERVICES OFFERINGS

12.1.12 BOLTON GROUP

TABLE 194 BOLTON GROUP: COMPANY OVERVIEW

TABLE 195 BOLTON GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

12.1.13 WINLONG GW INTERNATIONAL TECHNOLOGY (QINGDAO) CO., LTD.

TABLE 196 WINLONG GW INTERNATIONAL TECHNOLOGY (QINGDAO) CO., LTD.:
COMPANY OVERVIEW

TABLE 197 WINLONG GW INTERNATIONAL TECHNOLOGY (QINGDAO) CO., LTD.:
PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

12.1.14 SUPER BOND ADHESIVE PVT. LTD.

TABLE 198 SUPER BOND ADHESIVE PVT. LTD.: COMPANY OVERVIEW

TABLE 199 SUPER BOND ADHESIVE PVT. LTD.:
PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

12.1.15 JOWAT SE

TABLE 200 JOWAT SE: COMPANY OVERVIEW

TABLE 201 JOWAT SE: PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

12.1.16 MAPEI CORPORATION

TABLE 202 MAPEI CORPORATION: COMPANY OVERVIEW

TABLE 203 MAPEI CORPORATION: PRODUCTS/SOLUTIONS/SERVICES
OFFERINGS

12.1.17 SURFACTANT INDUSTRIES

TABLE 204 SURFACTANT INDUSTRIES: COMPANY OVERVIEW

TABLE 205 SURFACTANT INDUSTRIES: PRODUCTS/SOLUTIONS/SERVICES
OFFERINGS

12.1.18 ARCLIN, INC.

TABLE 206 ARCLIN, INC.: COMPANY OVERVIEW

TABLE 207 ARCLIN, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

TABLE 208 ARCLIN, INC.: DEALS, JANUARY 2018–DECEMBER 2023

12.1.19 AKKIM SEALANTS & ADHESIVES

TABLE 209 AKKIM SEALANTS & ADHESIVES: COMPANY OVERVIEW

TABLE 210 AKKIM SEALANTS & ADHESIVES: PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

12.1.20 IFS INDUSTRIES INC.

TABLE 211 IFS INDUSTRIES INC.: COMPANY OVERVIEW

TABLE 212 IFS INDUSTRIES INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

12.1.21 KIILTO

TABLE 213 KIILTO: COMPANY OVERVIEW

TABLE 214 KIILTO: PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

TABLE 215 KIILTO: DEALS, JANUARY 2018–DECEMBER 2023

12.1.22 TREMCO

TABLE 216 TREMCO: COMPANY OVERVIEW

TABLE 217 TREMCO: PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

12.1.23 NAPCO

TABLE 218 NAPCO: COMPANY OVERVIEW

TABLE 219 NAPCO: PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

12.1.24 DYNEA

TABLE 220 DYNEA: COMPANY OVERVIEW

TABLE 221 DYNEA: PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

12.1.25 ROBATECH AG

TABLE 222 ROBATECH AG: COMPANY OVERVIEW

TABLE 223 ROBATECH AG: PRODUCTS/SOLUTIONS/SERVICES OFFERINGS

*Details on Business overview, Products/Solutions/Services offered, Recent Developments, MnM view, Key strengths, Strategic choices, Weaknesses and competitive threats might not be captured in case of unlisted companies.

13 ADJACENT AND RELATED MARKETS**13.1 INTRODUCTION****13.2 CROSS-LAMINATED TIMBER****13.2.1 MARKET DEFINITION****13.2.2 CROSS-LAMINATED TIMBER: MARKET OVERVIEW****13.2.3 CROSS-LAMINATED TIMBER MARKET, BY TYPE**

TABLE 224 CROSS-LAMINATED TIMBER MARKET, BY TYPE, 2020–2022 (USD MILLION)

TABLE 225 CROSS-LAMINATED TIMBER MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 226 CROSS-LAMINATED TIMBER MARKET, BY TYPE, 2020–2022 (THOUSAND CUBIC METERS)

TABLE 227 CROSS-LAMINATED TIMBER MARKET, BY TYPE, 2023–2028
(THOUSAND CUBIC METERS)

13.2.4 CROSS-LAMINATED TIMBER MARKET, BY END-USE INDUSTRY

TABLE 228 CROSS-LAMINATED TIMBER MARKET, BY END-USE INDUSTRY,
2020–2022 (USD MILLION)

TABLE 229 CROSS-LAMINATED TIMBER MARKET, BY END-USE INDUSTRY,
2023–2028 (USD MILLION)

TABLE 230 CROSS-LAMINATED TIMBER MARKET, BY END-USE INDUSTRY,
2020–2022 (THOUSAND CUBIC METERS)

TABLE 231 CROSS-LAMINATED TIMBER MARKET, BY END-USE INDUSTRY,
2023–2028 (THOUSAND CUBIC METERS)

13.2.5 CROSS-LAMINATED TIMBER MARKET, BY INDUSTRY

TABLE 232 CROSS-LAMINATED TIMBER MARKET, BY INDUSTRY, 2020–2022
(USD MILLION)

TABLE 233 CROSS-LAMINATED TIMBER MARKET, BY INDUSTRY, 2023–2028
(USD MILLION)

TABLE 234 CROSS-LAMINATED TIMBER MARKET, BY INDUSTRY, 2020–2022
(THOUSAND CUBIC METER)

TABLE 235 CROSS-LAMINATED TIMBER MARKET, BY INDUSTRY, 2023–2028
(THOUSAND CUBIC METER)

13.2.6 CROSS-LAMINATED TIMBER MARKET, BY REGION

TABLE 236 CROSS-LAMINATED TIMBER MARKET, BY REGION, 2020–2022 (USD
MILLION)

TABLE 237 CROSS-LAMINATED TIMBER MARKET, BY REGION, 2023–2028 (USD
MILLION)

TABLE 238 CROSS-LAMINATED TIMBER MARKET, BY REGION, 2020–2022
(THOUSAND CUBIC METERS)

TABLE 239 CROSS-LAMINATED TIMBER MARKET, BY REGION, 2023–2028
(THOUSAND CUBIC METERS)

14 APPENDIX

14.1 DISCUSSION GUIDE

14.2 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

14.3 CUSTOMIZATION OPTIONS

14.4 RELATED REPORTS

14.5 AUTHOR DETAILS

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